

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: L3R City/County: Clearwater Sampling Date: 2015-06-02
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CL021a1W_R1
 Investigator(s): ACM/KRG Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): depression Local Relief (concave, convex, none): Conca... Slope (%): 0-2
 Subregion (LRR or MLRA): _____ Latitude: 47.6883271756... Longitude: -95.43063607... Datum: Minnesota State ...
 Soil Map Unit Name: 38B NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes
 Are Vegetation Yes, 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? If yes, optional Wetland Site ID: _____
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>Yes</u>	
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a fresh wet meadow located in a ditch between a roadside and crop field.		

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
<u>yes</u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)	<u>yes</u> Drainage Patterns (B10)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Moss Trim Lines (B16)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Crayfish Burrows (C8)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Stunted/Stressed Plants (D1)	<u>yes</u> Geomorphic Position (D2)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Shallow Aquitard (D3)	<u> </u> Microtopographic Relief (D4)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> FAC-Neutral Test (D5)	
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)		
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)		
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)		
<u> </u> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	<u>Yes</u> Depth (inches) <u>2</u>	Wetland Hydrology Present?	<u>Yes</u>
Water Table Present?	<u>No</u> Depth (inches) _____		
Saturation Present? (includes capillary fringe)	<u>No</u> Depth (inches) _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Standing water is present in the wetland.			

Sampling Point: CL021a1W...

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot Size: _____)	% Cover	Species?	Status	
1. _____		_____	_____	_____	Number of Dominant Species
2. _____		_____	_____	_____	That Are OBL, FACW, or FAC: ¹ _____ (A)
3. _____		_____	_____	_____	Total Number of Dominant
4. _____		_____	_____	_____	¹ _____ (B)
5. _____		_____	_____	_____	Percent of Dominant Species
6. _____		_____	_____	_____	That Are OBL, FACW, or FAC: ¹⁰⁰ _____ (A/B)
7. _____		_____	_____	_____	
Sapling/Shrub Stratum (Plot Size: _____)					Prevalence Index worksheet:
1. _____		_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____		_____	_____	_____	OBL species <u>4.00</u> x 1 <u>4</u>
3. _____		_____	_____	_____	FACW species <u>5.00</u> x 2 <u>10</u>
4. _____		_____	_____	_____	FACU species <u>30.00</u> x 3 <u>8</u>
5. _____		_____	_____	_____	UPL species <u>0.00</u> x 4 <u>0</u>
6. _____		_____	_____	_____	Column Totals <u>41</u> (A) <u>112</u> (B)
7. _____		_____	_____	_____	Prevalence Index = B/A = <u>2.7317073...</u>
Herb Stratum (Plot Size: ⁵ _____)					Hydrophytic Vegetation Indicators:
1. Juncus tenuis		30.00	Yes	FAC	<u>yes</u> 1 - Rapid Test for Hydrophytic Vegetation
2. Phalaris arundinacea		5.00	No	FACW	<u>yes</u> 2 - Dominance Test is > 50%
3. Taraxacum officinale		2.00	No	FACU	<u>yes</u> 3 - Prevalence Index is ≤ 3.0 ¹
4. Scirpus atrovirens		2.00	No	OBL	_____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. Glyceria striata		2.00	No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
6. _____		_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. _____		_____	_____	_____	Definitions of Vegetation Strata:
8. _____		_____	_____	_____	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
9. _____		_____	_____	_____	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10. _____		_____	_____	_____	Herb - All herbaeaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11. _____		_____	_____	_____	Woody vines - All woody vines greater than 3.28 ft in height.
12. _____		_____	_____	_____	
Woody Vine Stratum (Plot Size: _____)					Hydrophytic Vegetation Present? _____
1. _____		_____	_____	_____	
2. _____		_____	_____	_____	
3. _____		_____	_____	_____	
4. _____		_____	_____	_____	
Remarks: (include photo numbers here or on a separate sheet.)					
Vegetation is dominated by path rush with significant areas of bare soil and open standing water. Vegetation has been disturbed from vehicles driving through the ditch to access utili...					

SOIL

Sampling Point: CL021a1...

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soil ³ :
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)	☐ Coast Prairie Redox (A16)(LRR K, L, R)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (LRR K, L)	☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)	☐ Dark Surface (S7) (LRR K, M)
☐ Stratified Layers (A5)	☐ Depleted Matrix (F3)	☐ Polyvalue Below Surface (S8) (LRR K, L)
☐ Depleted Below Dark Surface (A11)	☐ Redox Dark Surface (F6)	☐ Thin Dark Surface (S9) (LRR K, L)
☐ Thick Dark Surface (A12)	☐ Depleted Dark Surface (F7)	☐ Iron-Manganese Masses (F12) (LRR K, L, R)
☐ Sandy Mucky Mineral (S1)	☐ Redox Depressions (F8)	☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
☐ Sandy Gleyed Matrix (S4)		☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
☐ Sandy Redox (S5)		☐ Red Parent Material (F21)
☐ Stripped Matrix (S6)		☐ Very Shallow Dark Surface (TF12)
☐ Dark Surface (S7) (LRR R, MLRA 149B)		☒ Other (explain in remarks)
Restrictive Layer (if observed): ☐	Hydric Soil Present? Yes _____	
Type: _____		
Depth (inches): _____		
Remarks:		
Soils were not sampled due to the location in a roadside ditch. Soils are assumed hydric based on vegetation and landscape position.		