

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Cass Sampling Date: 2015-06-30
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CA091b1U_R
 Investigator(s): ZSW/DAL Section, Township, Range: 27, 139n, 28w
 Landform (hillslope, terrace, etc.): Rise Local Relief (concave, convex, none): Convex Slope (%): 3
 Subregion (LRR or MLRA): LRR K Latitude: 46.8318909639... Longitude: -94.19725284... Datum: Minnesota State ...
 Soil Map Unit Name: 732 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 Yes, or Hydrology Yes significantly disturbed? Are "Normal Circumstances" present? Yes
 Are Vegetation Yes, Soil Yes, or Hydrology Yes 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>No</u>	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: <u></u>
Hydric Soil Present?	<u>No</u>	
Wetland Hydrology Present?	<u>No</u>	
Remarks: (Explain alternative procedures here or in a separate report.) ACTIVE GRAZING OCCURS AT SAMPLE POINT		

HYDROLOGY

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

Sampling Point: CA091b1U...

		Absolute	Dominant	Indicator	Dominance Test worksheet:
		% Cover	Species?	Status	
<u>Tree Stratum</u> (Plot Size: <u>30</u>)					Number of Dominant Species
1.					That Are OBL, FACW, or FAC: <u>0</u> (A)
2.					Total Number of Dominant
3.					<u>1</u>
4.					Species Across All Strata: (B)
5.					Percent of Dominant Species
6.					That Are OBL, FACW, or FAC: <u>0</u> (A/B)
7.					
<u>Sapling/Shrub Stratum</u> (Plot Size: <u>15</u>)		<u>0</u> = Total Cover			Prevalence Index worksheet:
1.					Total % Cover of: Multiply by:
2.					OBL species <u>0.00</u> x 1 <u>0</u>
3.					FACW species <u>0.00</u> x 2 <u>0</u>
4.					FACU species <u>0.00</u> x 3 <u>280</u>
5.					UPL species <u>0.00</u> x 4 <u>0</u>
6.					Column Totals <u>70</u> (A) <u>280</u> (B)
7.					Prevalence Index = B/A = <u>4</u>
<u>Herb Stratum</u> (Plot Size: <u>5</u>)		<u>0</u> = Total Cover			Hydrophytic Vegetation Indicators:
1. <u>Poa pratensis</u>	<u>50.00</u>	<u>Yes</u>	<u>FACU</u>		<u> </u> 1 - Rapid Test for Hydrophytic Vegetation
2. <u>Phleum pratense</u>	<u>10.00</u>	<u>No</u>	<u>FACU</u>		<u>no</u> 2 - Dominance Test is > 50%
3. <u>Taraxacum officinale</u>	<u>10.00</u>	<u>No</u>	<u>FACU</u>		<u>no</u> 3 - Prevalence Index is ≤ 3.0 ¹
4.					<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5.					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.	<u>70</u> = Total Cover				Hydrophytic Vegetation Present? _____
<u>Woody Vine Stratum</u> (Plot Size: <u>30</u>)					
1.					
2.					
3.					
4.					
		<u>0</u> =Total Cover			
Remarks: (include photo numbers here or on a separate sheet.)					

SOIL

Sampling Point: CA091b1U...

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? <u>No</u>	
Type: _____		
Depth (inches): _____		
Remarks:		



Latitude: 46.8318910478119

Cowardin Classification: _____

Longitude: -94.1972585488988

Circular 39: _____

Direction: South

Eggers & Reed: _____

Remarks: