WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 07-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n22w20-a2
Investigator(s): PJK		Section, Township, Range:	S. 20 T. 51N R. 22W
Landform (hillslope, terrace, etc.): Mou	und I	Local relief (concave, convex, n	
Subregion (LRR or MLRA): LRR K		16 53.1186 Long	∴ -93 9.3185 Datum: NAD 83
Soil Map Unit Name: 292			NWI classification: N/A
Are climatic/hydrologic conditions on th	e site typical for this time of ve	ar? Yes No	(If no, explain in Remarks.)
., ,			Circumstances" present? Yes • No
	r Hydrology		explain any answers in Remarks.)
. ,		,	s, transects, important features, etc
Hydrophytic Vegetation Present? You	es O No O		· · · · · · · · · · · · · · · · · · ·
1	es O No 💿	Is the Sampled Area within a Wetland?	Yes ○ No ●
1 -	es O No 💿	Within a wettanu:	103 0 110 2
Remarks: (Explain alternative procedu	res here or in a senarate report	+ \	
Hydrology Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one re	equired; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leave	• •	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1)	Marl Deposits (B15)		Dry Season Water Table (C2) Crayfish Burrows (C8)
Sediment Deposits (B2)	Hydrogen Sulfide O	gor (CT) res along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduce		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		ion in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface ((C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B.	U Other (Explain in Ne	emarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B	3)		FAC-neutral Test (D5)
Field Observations:			
Carrage Water Freedom	No Depth (inches):	0	
	No Depth (inches):	0 Wetland Hydr	ology Present? Yes O No •
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):	0	ology Fresent:
Describe Recorded Data (stream gauge	, monitoring well, aerial photos	s, previous inspections), if avail	able:
Remarks:			

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific fiames of pia	11165			Sampling Point: u-51n22w20-a2
(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1 Acer saccharum	80	✓	FACU	That are OBL, FACW, or FAC: (A)
2. Populus tremuloides	10		FACU	Total Number of Descious
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15			•	0BL species 0 x 1 = 0
1	0			FACW species 0 x 2 = 0
2				
3				· — —
4				FACU species 165 x 4 = 660
5				UPL speci es $\frac{15}{}$ x 5 = $\frac{75}{}$
6				Column Total s: <u>180</u> (A) <u>735</u> (B)
7				Prevalence Index = B/A = 4.083
		= Total Cove		
Herb Stratum (Plot size: 5		. 0	•	Hydrophytic Vegetation Indicators:
1 Poa pratensis	60	✓	FACU	Rapid Test for Hydrophytic Vegetation
2. Pteridium aquilinum			FACU	☐ Dominance Test is > 50%
			UPL	Prevalence Index is ≤3.0 ¹
			01 L	Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Definitions of Vegetation Strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
(Dlat size 20	90 =	Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				size, and woody plants less than 5.20 it tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	0 =	Total Cove	r	
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate sh	eet \			
Remarks. (Include proto numbers here of on a separate si	ieet.)			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-51n22w20-a2

Ginches) Color (moist) 96 Color (moist) 96 Type Lo2 Texture R 3-14 107R 2/2 100 Sili Loss 3-14 107R 4/4 100 Sandy Clay Loam 3-14 20 107R 4/3 90 107R 4/4 10 C M Sandy Clay Loam 3-14 20 107R 4/3 90 107R 4/4 10 C M Sandy Clay Loam 3-14 20 107R 4/3 90 107R 4/4 10 C M Sandy Clay Loam 3-15 2	
3.14 10YR 4/4 100 Sandy Clay Loam Type: C-Concentration. D-Depletion. RM-Reduced Matrix, CS-Covered or Coated Sand Grains 2Location: PL-Pore Lining. M=Matrix Polyraic Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) MRA 149B) Stratified Layers (A12) Sandy Muck Mineral (S1) Depleted Matrix (F2) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S4) Stripped Matrix (S4) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Stripped Matrix (Remarks
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emarks:	s O No 💿