## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	1	Sampling	<b>Date:</b> 07-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n22w21-a1
Investigator(s): PJK	Section, Townsh	nip, Range: S. 21	<b>T.</b> 51N	<b>R.</b> 22W
Landform (hillslope, terrace, etc.): Mound	Local relief (concav		convex	Slope: <u>1.7</u> % / <u>1.0</u> °
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 53.0443	<b>Long.:</b> -93	7.8153	Datum: NAD 83
Soil Map Unit Name: 292			IWI classification: N	
Are climatic/hydrologic conditions on the site to	pical for this time of year? Yes	No O (If no,	explain in Remarks.)	
Are Vegetation, Soil, or Hydro		• •	nstances" present?	Yes ● No ○
Are Vegetation , Soil , or Hydro			any answers in Rema	rks.)
Summary of Findings - Attach site			-	•
Hydrophytic Vegetation Present? Yes	No •			
Hydric Soil Present? Yes	No  Is the Sam within a W		○ No ●	
Wetland Hydrology Present? Yes	No •	edalia:		
Remarks: (Explain alternative procedures her	e or in a separate report.)			
Hydrology				
Wetland Hydrology Indicators:			dary Indicators (minimun	n of 2 required)
Primary Indicators (minimum of one required  Surface Water (A1)			urface Soil Cracks (B6)	
High Water Table (A2)	<ul><li>Water-Stained Leaves (B9)</li><li>☐ Aquatic Fauna (B13)</li></ul>		rainage Patterns (B10) oss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		ry Season Water Table (0	(2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		ayfish Burrows (C8)	·-/
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots		aturation Visible on Aerial	Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)		unted or Stressed Plants	(D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	☐ Ge	eomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		nallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		icrotopographic Relief (D	4)
Sparsely Vegetated Concave Surface (B8)			AC-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes No •	Depth (inches): 0			
Water Table Present? Yes No •	Depth (inches):0	etland Hydrology I	Present? Yes	No •
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0	etiana Hydrology i	Present? Tes 🔾	NO S
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspection	ons), if available:		
Remarks:				

## **VEGETATION - Use scientific names of plants**

4-1	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:0(A)
2				
3		$\overline{\Box}$		Total Number of Dominant
				Species Across All Strata: (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: 0.0% (A/B)
6	0			
7	0			Prevalence Index worksheet:
Olot size: 1E	0 =	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				0BL speci es0 x 1 =0
1	0			FACW species 15 x 2 = 30
2	0			
3				FAC speciles $0 \times 3 = 0$
4				FACU species x 4 =400
5		$\overline{\Box}$		UPL speci es $0 \times 5 = 0$
		$\Box$		Column Totals: <u>115</u> (A) <u>430</u> (B)
6				·
7				Prevalence Index = B/A = 3.739
Herb Stratum (Plot size: 5)		= Total Cover	•	Hydrophytic Vegetation Indicators:
		_		Rapid Test for Hydrophytic Vegetation
1. Pteridium aquilinum	60	<b>✓</b>	FACU	Dominance Test is > 50%
2. Poa pratensis	40	✓	FACU	Prevalence Index is ≤3.0 ¹
3. Solidago gigantea	15		FACW	
4	0			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				_
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
Woody Vine Stratum (Plot size: 30 )	115 =	= Total Cover	•	greater than 3.28 ft (1m) tall
1,				Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= Total Cover		
				Hydrophytic
				Vogetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: u-51n22w21-a1

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-51n22w21-a1

Depth	-	Matrix	· 	needed to document the indicator or confirm th  Redox Features	_
(inches)	Color (n	noist)	%	Color (moist) % Type 1 Loc2	Texture Remarks
0-4	10YR	2/1	100		Silt Loam
4-6	10YR	3/2	100		Silt Loam
6-20	10YR	4/3	100		Silt Loam
	-				<del></del>
		-Depletic	n. RM=Redi	uced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup> Lc	ocation: PL=Pore Lining. M=Matrix
Hydric Soil					Indicators for Problematic Hydric Soils: $^{3}$
Histosol	` ,			Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)			Thin Dark Surface (S9) (LRR R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black His				Loamy Mucky Mineral (F1) LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) Layers (A5)			Loamy Gleyed Matrix (F2)	Dark Surface (S7) (LRR K, L, M)
	l Layers (A5) l Below Dark Su	ırfaca (A	11)	Depleted Matrix (F3)	Polyvalue Below Surface (S8) (LRR K, L)
	rk Surface (A12		.11)	Redox Dark Surface (F6)	Thin Dark Surface (S9) (LRR K, L)
	uck Mineral (S1			Depleted Dark Surface (F7)	☐ Iron-Manganese Masses (F12) (LRR K, L, R)
	eyed Matrix (S			Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Re		.,			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
	Matrix (S6)				Red Parent Material (F21)
	face (S7) (LRR	R, MLRA	A 149B)		<ul><li>✓ Very Shallow Dark Surface (TF12)</li><li>✓ Other (Explain in Remarks)</li></ul>
				nd hydrology must be present, unless disturbed or pro	
			iii ailu wella	nd flydrology flidst be present, diffess disturbed or pro	buernatic.
	Layer (if obse	rved):			
Type:					Hydric Soil Present? Yes No
Depth (inc	ches):				Transition Tes Control
Remarks:					