## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Cor	unty: St. Louis	Samplin	<b>g Date:</b> 11-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n20w20-a3
Investigator(s): PJK	Sect	ion, Township, Range: S	. 20 <b>T.</b> 51N	<b>R.</b> 20W
Landform (hillslope, terrace, etc.): Mound		lief (concave, convex, no		Slope: 1.7 % / 1.0 °
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 52.93	343 <b>Long.</b> :	-92 53.9822	Datum: NAD 83
Soil Map Unit Name: B126D			NWI classification:	N/A
Are climatic/hydrologic conditions on the s	ite typical for this time of year?	Yes ● No ○ (	_ If no, explain in Remarks	s.)
. ,	ydrology    significantly disturl	`	ircumstances" present?	Yes  No
	ydrology    naturally problema		plain any answers in Ren	
Summary of Findings - Attach		,	•	•
Hydrophytic Vegetation Present? Yes	<del> </del>		,, <b>,</b>	
Hydric Soil Present? Yes		Is the Sampled Area	Yes ○ No ●	
Wetland Hydrology Present? Yes		within a Wetland?	Tes © NO ©	
Remarks: (Explain alternative procedures				
Hydrology  Wetland Hydrology Indicators:			2	52ind)
Primary Indicators (minimum of one requ	ired; sheek all that apply)	<u>.</u>	Secondary Indicators (minim	
Surface Water (A1)	Water-Stained Leaves (B9)		<ul><li>Surface Soil Cracks (B6)</li><li>Drainage Patterns (B10)</li></ul>	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table	(C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres along	Living Roots (C3)	Saturation Visible on Aer	rial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (0		Stunted or Stressed Plan	• ,
Algal Mat or Crust (B4)  Iron Deposits (B5)	Recent Iron Reduction in Till	ed Soils (C6)	Geomorphic Position (D2	2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)		<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief</li></ul>	(D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		FAC-neutral Test (D5)	(D4)
Field Observations: Surface Water Present?  Yes No	<ul><li>Depth (inches):</li></ul>			
Water Table Present? Yes No				
Saturation Present?		Wetland Hydro	logy Present? Yes	○ No ●
(includes capillary fringe)  Describe Recorded Data (stream gauge, n		ous inspections), if availa	ble:	
Remarks:				

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

vegeration - ose scientific fiames of pr	Sampling Point: u-51n20w20-a3						
(8) -1 - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species			
1				That are OBL, FACW, or FAC: (A)			
2				Total Number of Dominant			
3				Species Across All Strata:1 (B)			
4	0						
5				Percent of dominant Species That Are OBL FACW or FAC: 0.0% (A/B)			
6				That Are OBL, FACW, or FAC: 0.0% (A/B)			
7				Prevalence Index worksheet:			
		Total Cove	r	Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15				OBL species			
1				FACW species 0 x 2 = 0			
2				FAC speciles <u>5</u> x 3 = <u>15</u>			
3	0			FACU species $100 \times 4 = 400$			
4	0			1			
5	0						
6	0			Column Total s: <u>105</u> (A) <u>415</u> (B)			
7	0			Prevalence Index = B/A = 3.952			
(Districes E	0 = Total Cover		r	Hydrophytic Vegetation Indicators:			
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation			
1. Poa pratensis	70	✓	FACU	Dominance Test is > 50%			
2. Trifolium pratense	20		FACU	Prevalence Index is ≤3.0 ¹			
3. Taraxacum officinale	5		FACU				
4. Trifolium repens	5		FACU	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
5. Ranunculus repens	-		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
6							
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
8				be present, unless disturbed or problematic.			
9				Definitions of Vegetation Strata:			
0		Ä		The Manks plants 2 in (7.0 cm) as prove in diameter			
1				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
2				at areast neight (2217), regardless of height			
۷۰		□ = Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and			
Woody Vine Stratum (Plot size: 30		- Total Cove		greater than 3.28 ft (1m) tall			
1	0			Herb - All herbaceous (non-woody) plants, regardless of			
2	0			size, and woody plants less than 3.28 ft tall.			
3				Manda vine All woods vines greater than 2.29 ft in			
4	0			Woody vine - All woody vines greater than 3.28 ft in height.			
т.	0 =	Total Cove	-	1.5.9			
		- Total Cove					
				Hydrophytic			
				Vegetation			
				Present? Yes V No V			
Remarks: (Include photo numbers here or on a separate s	sheet.)						

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

Soil Sampling Point: u-51n20w20-a3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth			Redox Features			-						
(inches)	Color (ı		%	Color (	moist)	%_	Type <sup>1</sup>	Loc²	Texture	Rem	arks	
0-2	10YR	2/2	100						Silt Loam			
2-6	10YR	3/2	95	10YR	4/6	5	C		Sandy Loam			
6-20	10YR	4/3	90	10YR	4/6	10	C	_M	Sandy Loam			
			-	-	-	-						
					-							
		-										
					-							
	<del></del> .				-							
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup> Location: PL=Pore Lining. M=Matrix												
Hydric Soil I									Indicators for Proble	ematic Hydric	Soils: 3	
Histosol (A	-				value Belov A 149B)	Below Surface (S8) (LRR R, B)		2 cm Muck (A10) (LRR K, L, MLRA 149B)				
Histic Epip Black Histi					•	ace (S9) (	(LRR R, MLI	RA 149B)	Coast Prairie Redo			
_	Sulfide (A4)						1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Layers (A5)			Loan	ny Gleyed	Matrix (F2	2)		Dark Surface (S7) (LRR K, L, M)			
_	Below Dark S	Surface (A	.11)		eted Matri				Polyvalue Below Surface (S8) (LRR K, L)			
☐ Thick Dark	c Surface (A1	2)		_		rface (F6)			☐ Thin Dark Surface (S9) (LRR K, L) ☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
Sandy Mu	ck Mineral (S	1)				Surface (F	<del>-</del> 7)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	yed Matrix (S	54)		∟ Redo	x Depress	sions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Red									Red Parent Material (F21)			
	Stripped Matrix (S6)			Very Shallow Dark Surface (TF12)								
☐ Dark Surface (S7) (LRR R, MLRA 149B)						Other (Explain in Remarks)						
<sup>3</sup> Indicators of	hydrophytic	vegetatio	on and wetla	and hydrology	must be p	oresent, ur	nless distur	bed or proble	ematic.			
Restrictive La	ayer (if obse	erved):										
Type:									Hydric Soil Present?	V	No O	
Depth (inch	nes):								Hydric Soil Present?	Yes	No U	
Remarks:												