## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Sampli	Sampling Date: 11-Sep-17	
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n20w20-a2
Investigator(s): PJK		Section, T	ownship, Range: S. 20	<b>T.</b> 51N	<b>R.</b> 20W
Landform (hillslope, terrace, etc.): Mound		Local relief (c	oncave, convex, none):	convex	Slope: 7.0 % / 4.0
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.8922	<b>Long.:</b> .9	2 54.5008	Datum: NAD 83
Soil Map Unit Name: B102A				NWI classification:	N/A
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology Summary of Findings - Attach site map	naturally showing	tly disturbed? problematic? sampling p	(If needed, explai	mstances" present? n any answers in Re <b>ansects, impo</b>	
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo	)		e Sampled Area n a Wetland? Yes	; 🔿 No 🖲	
Remarks: (Explain alternative procedures here or in a	a separate repo	ort.)			

## Hydrology

Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of or	ne required; c	heck all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)		Water-Stained Leaves (B9)	Drainage Patterns (B10)
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 I	
Drift deposits (B3)		Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils	
Iron Deposits (B5)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imager	ry (B7)	Thin Muck Surface (C7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surfac	5		FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	🔾 No 🖲	Depth (inches): 0	
Water Table Present? Yes	🔾 No 🖲	Depth (inches):0	Wetland Hydrology Present? Yes 🔿 No 🖲
Saturation Present? Yes C	) No 🖲	Depth (inches):0	Wetland Hydrology Present? Yes 🔾 No 🖲
Describe Recorded Data (stream ga	auge, monitor	ing well, aerial photos, previous insp	pections), if available:
Remarks:			

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

VEGETATION - Use scientific names of plan	nts			Sampling Point: u-51n20w20-a2
	Absolute		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:(B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC:
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	0 =	Total Cover		Total % Cover of: Multiply by:
1	0			0BL  species  0  x 1 = 0
2				FACW species $0 \times 2 = 0$
3	-			FAC species $10$ x 3 = $30$
4.				FACU species $90 \times 4 = 360$
5	-			UPL species $0 \times 5 = 0$
6				Column Totals: <u>100</u> (A) <u>390</u> (B)
7				Prevalence Index = B/A = 3.900
	0 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 )				Rapid Test for Hydrophytic Vegetation
1. Poa pratensis	70	$\checkmark$	FACU	Dominance Test is > 50%
2. Trifolium repens			FACU	Prevalence Index is ≤3.0 <sup>1</sup>
3. Taraxacum officinale			FACU	Morphological Adaptations <sup>1</sup> (Provide supporting
4. Panicum capillare			FAC	data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				1 To disate as found is sail and we blood budgets any much
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				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 )	100 =	Total Cover		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	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cover		
				Hydrophytic Vegetation
				Present? Yes No 💿
Remarks: (Include photo numbers here or on a separate she	et.)			

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

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Profile Descr	ription: (Des	cribe to	the depth	needed to docu	ment the ind	icator or co	onfirm the	absence of indicators.)		
Depth		Matrix			Redox Feat			_		
(inches)	Color (I	moist)	%	Color (moi	st) %	Type 1	Loc <sup>2</sup>	Texture	Remarks	
0-6	10YR	2/2	100					Silt Loam		
6-20	10YR	4/2	80	10YR 4	4/4 20	С	Μ	Silt Loam		
			17 17	-			10 <sup>-</sup>			
		-								
		-								
			-	<u> </u>						
<sup>1</sup> Type: C=Con	centration D	=Depletic	n RM=Red	uced Matrix CS=(	Covered or Coa	ated Sand Gr	ains 21 oca	ation: PL=Pore Lining. M=M	atrix	
		-Depictic								
Hydric Soil I				Debaret	Below Surface	، ممار (co)	2	Indicators for Proble	ematic Hydric Soils : <sup>3</sup>	
	ipedon (A2)			MLRA 14	9B)	e (38) (LRR I	۲,	2 cm Muck (A10) (	(LRR K, L, MLRA 149B)	
Black Hist				Thin Dark	Surface (S9)	(LRR R, MLI	RA 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)	
_	n Sulfide (A4)				ucky Mineral (F			5 cm Mucky Peat c	or Peat (S3) (LRR K, L, R)	
_ · ·	Layers (A5)				eyed Matrix (F			Dark Surface (S7)		
	Below Dark S	Surface (A	(11)		Matrix (F3)			Polyvalue Below Surface (S8) (LRR K, L)		
	rk Surface (A1		(11)		ark Surface (F6	)		Thin Dark Surface		
		•		Depleted	Dark Surface (	(F7)			lasses (F12) (LRR K, L, R)	
	uck Mineral (S eyed Matrix (S				pressions (F8)				in Soils (F19) (MLRA 149B)	
Sandy Ge		54)							) (MLRA 144A, 145, 149B)	
	Matrix (S6)							Red Parent Materia		
	face (S7) (LRF		140P)					Very Shallow Dark		
								Other (Explain in R	Remarks)	
<sup>3</sup> Indicators o	of hydrophytic	vegetatio	on and wetla	ind hydrology mus	t be present, ι	unless distur	bed or probl	lematic.		
<b>Restrictive L</b>	ayer (if obse	erved):								
Туре:										
Depth (inc	ches):							Hydric Soil Present?	Yes 🔍 No 🔾	
Remarks:										
Remarks.										
1										