## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 14-Sep-17
Applicant/Owner: Enbridge	State:	MN Sampling Point: u-50n19w21-d2
Investigator(s): SMR	Section, Township, Range	e: S. 21 T. 50N R. 19W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex	
Subregion (LRR or MLRA): LRR K	Lat.: 46 48.4440 Lo	ong.: -92 45.3807
Soil Map Unit Name: F33A		NWI classification: N/A
Are climatic/hydrologic conditions on the site typ	ical for this time of year?	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	_	nal Circumstances" present? Yes  No
Are Vegetation, Soil, or Hydrolog		d, explain any answers in Remarks.)
, _ , ,	•	ons, transects, important features, etc
<u> </u>	No ●	, , , , , , , , , , , , , , , , , , , ,
Hydric Soil Present? Yes	No   Is the Sampled Area	Yes ○ No ●
	No ● within a Wetland?	103 0 110 0
Remarks: (Explain alternative procedures here		
Hydrology  Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; of	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) Water Marks (B1)	Marl Deposits (B15)	Dry Season Water Table (C2)
Sediment Deposits (B2)	<ul><li>☐ Hydrogen Sulfide Odor (C1)</li><li>☐ Oxidized Rhizospheres along Living Roots (C3)</li></ul>	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Oxidized Rnizospheres along Living Roots (C3)  Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No •	Depth (inches):0	
Water Table Present? Yes No •	Depth (inches):0	
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0	ydrology Present? Yes O No 🖲
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections), if av	vailable:
Remarks:		
Remarks.		

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

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(0) - 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30	% Cover		Status	Number of Dominant Species		
1 Populus tremuloides		<b>✓</b>	FACU	That are OBL, FACW, or FAC: (A)		
2. Acer rubrum		<b>✓</b>	FAC	Total Number of Dominant		
3				Species Across All Strata: 7 (B)		
4						
5				Percent of dominant Species That Are OBL, FACW, or FAC:28.6% (A/B)		
6				That his obe, thow, of the		
7				Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15 )	=	Total Cove	r	Total % Cover of: Multiply by:		
1. Acer rubrum	20	<b>✓</b>	FAC	0BL species 0 x 1 = 0		
2. Corylus cornuta	10	<b>✓</b>	FACU	FACW species 0 x 2 = 0		
3				FAC species $\underline{40}$ x 3 = $\underline{120}$		
4				FACU species $160$ x 4 = $640$		
5				UPL species $0 \times 5 = 0$		
6				Column Totals: 200 (A) 760 (B)		
			-			
7		Total Cove		Prevalence Index = B/A = 3.800		
Herb Stratum (Plot size: 5	=	i otal Cove	r	Hydrophytic Vegetation Indicators:		
1 Tanacetum vulgare	30	<b>✓</b>	FACU	Rapid Test for Hydrophytic Vegetation		
		<b>✓</b>	FACU	☐ Dominance Test is > 50%		
		<b>✓</b>	FACU	Prevalence Index is ≤3.0 $^1$		
			FACU	☐ Morphological Adaptations <sup>1</sup> (Provide supporting		
4. Cirsium arvense			FACU	data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6				<sup>1</sup> 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.		
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1				at breast height (DBH), regardless of height.		
2				Sapling/shrub - Woody plants less than 3 in. DBH and		
Woody Vine Stratum (Plot size: 30 )	100 =	Total Cove	r	greater than 3.28 ft (1m) tall		
	0			Herb - All herbaceous (non-woody) plants, regardless of		
1 2		П		size, and woody plants less than 3.28 ft tall.		
3			-			
				Woody vine - All woody vines greater than 3.28 ft in height.		
4		Total Cava		Height.		
	=	Total Cove	г			
				Hydrophytic		
				Vogatation		
				Present? Yes No •		
Remarks: (Include photo numbers here or on a separate	sheet.)					

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

Soil Sampling Point: u-50n19w21-d2

Depth		Matrix			Redox Features		_	
(inches)	Color (	moist)	%	Color (moist)	% Type	1 Loc2	Texture	Remarks
0-9	10YR	3/3	100				Sandy Loam	
9-20	10YR	3/4	100				Sandy Loam	
							-	
		-						
			-					
	-	-						
Type: C=Cor	ncentration D	=Depletio	n RM=Red	uced Matrix, CS=Cov	vered or Coated Sand (	Grains 2Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil		Bopiotio		uccu mann, co co.		5.45		
Histosol				Polyvalue Re	elow Surface (S8) (LRF	D D		ematic Hydric Soils: 3
	ipedon (A2)			MLRA 149B)	)	X IX,		(LRR K, L, MLRA 149B)
Black His				Thin Dark Su	urface (S9) (LRR R, M	LRA 149B)		x (A16) (LRR K, L, R)
	n Sulfide (A4)			Loamy Muck	ky Mineral (F1) LRR K,	L)	_	or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gleye	ed Matrix (F2)		Dark Surface (S7)	
	Below Dark S	Surface (A	11)	Depleted Ma	atrix (F3)			urface (S8) (LRR K, L)
_	rk Surface (A1		,	Redox Dark	Surface (F6)		Thin Dark Surface	
	uck Mineral (S			Depleted Da	ark Surface (F7)			Masses (F12) (LRR K, L, R)
	leyed Matrix (S			Redox Depre				in Soils (F19) (MLRA 149B)
_	edox (S5)	34)						) (MLRA 144A, 145, 149B)
	Matrix (S6)						Red Parent Materi	• •
	face (S7) (LRF	OD MIDA	1/0R)					
							Other (Explain in F	Remarks)
<sup>3</sup> Indicators of	of hydrophytic	vegetatio	n and wetla	nd hydrology must b	pe present, unless distu	urbed or probl	lematic.	
Restrictive I	Layer (if obs	erved):						
Type: _								
Depth (in	ches):						Hydric Soil Present?	Yes 🔾 No 💿
Remarks:								
Romans.								