## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Ci	ity/County:	St. Louis		Samplin	<b>Date:</b> 12-Sep-17
Applicant/Owner: Enbridge				State: MN	l Sa	ampling Point:	w-51n20w35-a2
Investigator(s): PJK			Section, To	wnship, Range:	<b>s.</b> 35	<b>T.</b> 51N	<b>R.</b> 20W
Landform (hillslope, terrace, etc.)	Lowland	Lo	•	ncave, convex, n		oncave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR	. K	<b>Lat.:</b> 46	51.6458	Long	-92 50	0.8786	Datum: NAD 83
Soil Map Unit Name: B124A					NW	I classification:	N/A
Are climatic/hydrologic condition	s on the site ty	pical for this time of yea	r? Yes	;	(If no, ex	plain in Remarks	5.)
Are Vegetation $\square$ , Soil $\square$	, or Hydrol	ogy Significantly	disturbed?	Are "Normal	Circumst	ances" present?	Yes ● No ○
Are Vegetation $\Box$ , Soil $\Box$	, or Hydrol	ogy  naturally pro	blematic?	(If needed, e	explain an	y answers in Rei	narks.)
Summary of Findings -	•			•	-	-	•
Hydrophytic Vegetation Present	Yes •	No O					
Hydric Soil Present?	Yes	No O		Sampled Area a Wetland?	Yes 🖲	No O	
Wetland Hydrology Present?	Yes	No O		ia medalia.			
Hydrology Wetland Hydrology Indicators:						y Indicators (minim	
Primary Indicators (minimum o	one required;					ice Soil Cracks (B6)	
✓ Surface Water (A1) ✓ High Water Table (A2)		Water-Stained Leaves Aquatic Fauna (B13)	s (B9)			nage Patterns (B10) Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				Season Water Table	· (C2)
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)			fish Burrows (C8)	. (02)
Sediment Deposits (B2)		Oxidized Rhizosphere		Roots (C3)		ration Visible on Ae	rial Imagery (C9)
Drift deposits (B3)		Presence of Reduced		•		ted or Stressed Plan	
Algal Mat or Crust (B4)		Recent Iron Reductio	n in Tilled Soils	s (C6)	<b>✓</b> Geon	norphic Position (D	2)
Iron Deposits (B5)		Thin Muck Surface (C	7)			ow Aquitard (D3)	
Inundation Visible on Aerial Ima		Other (Explain in Ren	narks)		_	otopographic Relief	(D4)
Sparsely Vegetated Concave Su	face (B8)				<b>✓</b> FAC-	neutral Test (D5)	
Field Observations: Surface Water Present? Yes	● No ○	5 " " 1 )	10				
		Depth (inches):	12				
Water Table Present? Yes		Depth (inches):	0	Wetland Hydr	ology Pre	sent? Yes	● No ○
Saturation Present? (includes capillary fringe) Yes		Depth (inches):	0	-			
Describe Recorded Data (stream	gauge, monito	oring well, aerial photos,	previous insp	pections), if avail	able:		
Remarks:							
Remarks:							

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

(5)	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:3(A)		
2	0					
3				Total Number of Dominant Species Across All Strata: 3 (B)		
4				Species Across Air Strata.		
5				Percent of dominant Species		
				That Are OBL, FACW, or FAC:100.0% (A/B)		
6				Burnel and Tarley and Indian		
7				Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15 )	=	= Total Cove	r	Total % Cover of: Multiply by:		
A Allows to a second	15	<b>✓</b>	FACW	0BL speci es <u>30</u> x 1 = <u>30</u>		
- 0 " " " "		<b>✓</b>	FACW	FACW species115 x 2 =230		
•			TAOW	FAC speci es <u>15</u> x 3 = <u>45</u>		
3				FACU species $0 \times 4 = 0$		
4				UPL species $0 \times 5 = 0$		
5				Column Total s: 160 (A) 305 (B)		
6				Column locals. 100 (A) 305 (-)		
7	0			Prevalence Index = B/A = 1.906		
Herb Stratum (Plot size: 5)	45	= Total Cove	r	Hydrophytic Vegetation Indicators:		
				Rapid Test for Hydrophytic Vegetation		
1. Carex lacustris	20		OBL	✓ Dominance Test is > 50%		
2. Typha x glauca	10		OBL	✓ Prevalence Index is ≤3.0 ¹		
3. Phalaris arundinacea	70	✓	FACW			
4. Equisetum hyemale	15		FAC	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
5	0			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:		
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
11				at breast height (DDH), regardless of height.		
12				Sapling/shrub - Woody plants less than 3 in. DBH and		
Woody Vine Stratum (Plot size: 30 )	115 =	= Total Cove	•	greater than 3.28 ft (1m) tall		
	0			Herb - All herbaceous (non-woody) plants, regardless of		
1	0			size, and woody plants less than 3.28 ft tall.		
2						
3				Woody vine - All woody vines greater than 3.28 ft in		
4	0			height.		
	0 =	= Total Cove	r			
				Hydrophytic Vegetation		
				Present? Yes   No		
Remarks: (Include photo numbers here or on a separate she	at \					
Remarks. (Include photo humbers here of on a separate she	ec.)					

Sampling Point: w-51n20w35-a2

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

Soil Sampling Point: w-51n20w35-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth		Matrix			edox Featı			_			
(inches)	Color (	moist)	%_	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks		
0-5	10YR	2/1	100					Muck			
5-20	10YR	5/2	80	7.5YR 4/6	20	С	M	Silt Loam			
		-	-				-				
								-	-		
-											
			-				-				
1 Type: C=Cond	entration D	=Depletio	n RM=Re	duced Matrix, CS=Cove	ered or Coat	ed Sand Gr	ains 2Loca	ation: PL=Pore Lining. M=N	Matrix		
Hydric Soil I		Dopiotio					2000				
Histosol (A				Polyvalue Bel	OW Surface	(58) (100 (	<b>o</b>		lematic Hydric Soils: 3		
	pedon (A2)			MLRA 149B)	ow Surface	(30) (LKK I	ν,		(LRR K, L, MLRA 149B)		
Black Histi				Thin Dark Su	rface (S9) (	LRR R, MLF	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)			
	Sulfide (A4)			Loamy Mucky	/ Mineral (F1	I) LRR K, L)	)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
				Loamy Gleye				Dark Surface (S7) (LRR K, L, M)			
	Layers (A5)	· · · · · · · · · · / ^	11\	✓ Depleted Mat		,		Polyvalue Below S	Surface (S8) (LRR K, L)		
	Below Dark S		11)	Redox Dark S				Thin Dark Surface	e (S9) (LRR K, L)		
	k Surface (A			Depleted Dar		7)		Iron-Manganese	☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
	ck Mineral (S			Redox Depre		.,		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	yed Matrix (	S4)		Redox Bepre	3310113 (1 0)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Red								Red Parent Material (F21)			
Stripped N								☐ Very Shallow Dark Surface (TF12)			
☐ Dark Surfa	ace (S7) (LRI	R R, MLRA	149B)					Other (Explain in Remarks)			
<sup>3</sup> Indicators of	hydrophytic	vegetatio	n and wet	land hydrology must be	present, ur	nless disturb	bed or probl	ematic.			
Restrictive La											
Type:	ayer (ii obs	erveu).									
Depth (inch	200):							Hydric Soil Present?	Yes   No		
	les)										
Remarks:											