## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Co	unty: St. Louis	Sampli	ng Date: 13-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-50n20w1-d2
Investigator(s): DPT		Sec	tion, Township, Range:	<b>s.</b> 1 <b>t.</b> 50N	<b>R.</b> 20W
Landform (hillslope, terrace,	etc.): Lowland		elief (concave, convex, r		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K	<b>Lat.:</b> 46 50.4	437 <b>Long</b>	-92 48.8407	Datum: NAD 83
Soil Map Unit Name: B107A				NWI classification:	PSSB
Are climatic/hydrologic cond	ditions on the site ty	pical for this time of year?	Yes ● No ○	— (If no, explain in Remark	s.)
Are Vegetation, Soil	_		bed? Are "Normal	Circumstances" present?	Yes ● No ○
Are Vegetation , Soil				explain any answers in Re	marks.)
<b>.</b> .	<i>- , ,</i>	e map showing sampli	,	•	•
Hydrophytic Vegetation Pre	sent? Yes •	No O			
Hydric Soil Present?	Yes	No O	Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present	Yes ●	No O	Within a Wedana:	•••	
Remarks: (Explain alterna		e or in a separate report.)			
Hydrology					
Wetland Hydrology Indicate		· · · · · · · · · · · · · · · · · · ·		Secondary Indicators (minir	
Primary Indicators (minimus Surface Water (A1)	<u>ım ot one requirea;</u>			Surface Soil Cracks (B6  Drainage Patterns (B10	
✓ High Water Table (A2)		Water-Stained Leaves (B9) Aquatic Fauna (B13)		Moss Trim Lines (B16)	)
Saturation (A3)		Marl Deposits (B15)		Dry Season Water Table	e (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	•
Sediment Deposits (B2)		Oxidized Rhizospheres alon	g Living Roots (C3)	Saturation Visible on Ae	erial Imagery (C9)
Drift deposits (B3)		Presence of Reduced Iron (	•	Stunted or Stressed Pla	• •
Algal Mat or Crust (B4)  Iron Deposits (B5)		Recent Iron Reduction in Ti	lled Soils (C6)	✓ Geomorphic Position (D	02)
Inundation Visible on Aeria	al Imagery (B7)	Thin Muck Surface (C7)		<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief</li></ul>	· (D4)
Sparsely Vegetated Concar		Other (Explain in Remarks)		FAC-neutral Test (D5)	(04)
Field Observations: Surface Water Present?	Yes ● No ○	Depth (inches): 4			
Water Table Present?	Yes ● No ○	Depth (inches):0			
Saturation Present? (includes capillary fringe)	Yes  No	Depth (inches):0	Wetland Hydi	rology Present? Yes	● No ○
	ream gauge, monit	oring well, aerial photos, previ	ous inspections), if avai	lable:	
Remarks:					
incinarks.					

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

Tree Stratum (Plot size: 30 )	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
	% Cover		Status	Number of Dominant Species
1. Fraxinus nigra	10	✓	FACW	That are OBL, FACW, or FAC:5 (A)
2	0			
3				Total Number of Dominant Species Across All Strata: 5 (B)
4				Species Across Air Strata.
5				Percent of dominant Species
				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	10 =	Total Cover		Total % Cover of: Multiply by:
	40		FACW	0BL speci es <u>40</u> x 1 = <u>40</u>
	4.0	<b>✓</b>		FACW species 100 x 2 = 200
2. Fraxinus nigra			FACW	FAC speciles <u>20</u> x 3 = <u>60</u>
3. Populus tremuloides			FACU	FACU species 10 x 4 = 40
4				UPL species $\frac{0}{1000000000000000000000000000000000$
5	0			1
6	0			Column Total s: <u>170</u> (A) <u>340</u> (B)
7	0			Prevalence Index = B/A =2.000_
		Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation
1. Onoclea sensibilis	20	✓	FACW	1 —
2. Equisetum arvense	20	<b>✓</b>	FAC	✓ Dominance Test is > 50%
3. Calamagrostis canadensis	40	<u> </u>	OBL	<b>✓</b> Prevalence Index is $\leq$ 3.0 <sup>1</sup>
-				Morphological Adaptations <sup>1</sup> (Provide supporting
4		Ē		data in Remarks or on a separate sheet)
5		H		☐ 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	0			
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12				
		Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				greater than 3.20 ft (1111) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2				size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
Δ	0			height.
To	0 =	Total Cover		3
		- rotal corel		
				Hydrophytic
				Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate she	eet.)			

Sampling Point: w-50n20w1-d2

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

Soil Sampling Point: w-50n20w1-d2

Depth		Matrix				dox Feat			_	
(inches)	Color (n		%	Color	(moist)	%_	Type <sup>1</sup>	Loc2	Texture	Remarks
0-4	10YR	2/1	100						Muck	
4-20	10YR	3/1	90	10YR	4/4	10	С	М	Silty Clay Loam	
			-	-		-				
				-	-				-	
				-						
								-		
vpe: C=Cond	centration. D=	=Depletic	n. RM=Redu	ced Matrix.	CS=Cover	ed or Coa	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=N	Matrix
ydric Soil I										
Histosol (A				□ Poly	value Belo	w Surface	(S8) (LRR F	)		lematic Hydric Soils: 3
_ `	pedon (A2)			MLF	A 149B)	W Juliace	(30) (LIKIK I	.,		(LRR K, L, MLRA 149B)
Black Histi				Thir	Dark Surf	face (S9)	(LRR R, MLF	A 149B)		ox (A16) (LRR K, L, R)
_	Sulfide (A4)			Loa	ny Mucky	Mineral (F	1) LRR K, L)			or Peat (S3) (LRR K, L, R)
_	Layers (A5)			Loa	ny Gleyed	Matrix (F2	2)		Dark Surface (S7)	
_	Below Dark Si	urface (Δ	.11)	☐ Dep	leted Matr	ix (F3)				Surface (S8) (LRR K, L)
_	k Surface (A1:		111)	<b>✓</b> Red	ox Dark Su	urface (F6)			Thin Dark Surface	
_	ck Mineral (S			☐ Dep	leted Dark	Surface (I	<del>-</del> 7)			Masses (F12) (LRR K, L, R)
_	eyed Matrix (S				ox Depres					ain Soils (F19) (MLRA 149B)
Dalling Call		94)								6) (MLRA 144A, 145, 149B)
_		,								
Sandy Red	dox (S5)	,							Red Parent Mater	, ,
Sandy Red Stripped M	dox (S5) Matrix (S6)		\ 140P\						Very Shallow Dar	k Surface (TF12)
Sandy Red Stripped M Dark Surfa	dox (S5) Matrix (S6) ace (S7) (LRR	R, MLRA							☐ Very Shallow Dar	k Surface (TF12)
Sandy Red Stripped M Dark Surfa	dox (S5) Matrix (S6)	R, MLRA		nd hydrolog <u>y</u>	/ must be	present, u	nless disturt	oed or probl	☐ Very Shallow Dar	k Surface (TF12)
Sandy Recommendation  Stripped Mark Surfa  Indicators of	dox (S5) Matrix (S6) ace (S7) (LRR	R, MLRA		nd hydrolog <u>y</u>	/ must be	present, u	nless disturt	ped or probl	☐ Very Shallow Dar	k Surface (TF12)
Sandy Recommend Stripped Mark Surfa	dox (S5)  Matrix (S6)  ace (S7) (LRR	R, MLRA		nd hydrolog <u>y</u>	/ must be	present, u	nless disturt	ped or probl	☐ Very Shallow Dar	k Surface (TF12) Remarks)
Sandy Recomplete Stripped Mark Surfa Sundicators of Cestrictive La	dox (S5) Matrix (S6) ace (S7) (LRR hydrophytic o	R, MLRA		nd hydrolog	/ must be	present, u	nless disturt	ed or probl	☐ Very Shallow Dar	k Surface (TF12)
Sandy Rec Stripped M Dark Surfa Indicators of estrictive La Type: Depth (inch	dox (S5) Matrix (S6) ace (S7) (LRR hydrophytic o	R, MLRA		nd hydrolog	/ must be	present, u	nless disturt	ed or probl	Uery Shallow Dar  ☐ Other (Explain in lematic.	k Surface (TF12) Remarks)
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