## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Lou	uis	Sampling Date: 09-Sep-17	_
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n21w24-a1	
Investigator(s): PJK	Section, Township	p, Range: S. 24	<b>T.</b> 51N <b>R.</b> 21W	
Landform (hillslope, terrace, etc.): Mound	Local relief (concave,	-	convex Slope: 1.7 % / 1	1.0
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 53.2887	Long.: -92	57.1827 <b>Datum:</b> NAD 83	
Soil Map Unit Name: B103A		N\	NI classification: N/A	
Are climatic/hydrologic conditions on the site ty	pical for this time of year? Yes   Yes	lo O (If no, o	explain in Remarks.)	_
Are Vegetation , Soil , or Hydrol	ogy significantly disturbed? Arc	e "Normal Circums	stances" present? Yes   No	
Are Vegetation , Soil , or Hydrol			nny answers in Remarks.)	
Summary of Findings - Attach site	•	· •	•	3
Hydrophytic Vegetation Present? Yes	No O		<del>-</del>	
Hydric Soil Present? Yes	No • Is the Sample within a Wet		○ No ●	
Wetland Hydrology Present?	No •	laliu:		
Remarks: (Explain alternative procedures here	or in a senarate renort.)			
Hydrology Wetland Hydrology Indicators:		_Seconda	ary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required;	check all that apply)		face Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)		inage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)		ss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Season Water Table (C2)	
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)		yfish Burrows (C8) uration Visible on Aerial Imagery (C9)	
Drift deposits (B3)	Oxidized Rhizospheres along Living Roots ( Presence of Reduced Iron (C4)		uration visible on Aerial Imagery (C9) nted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	=	omorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		illow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Mic	rotopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)		☐ FAC	C-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes No •	Depth (inches): 0			
Water Table Present? Yes No •	Depth (inches): 0			
Saturation Present? Yes No •	Depth (inches): 0	tland Hydrology P	resent? Yes O No 🖲	
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspection	ns), if available:		
Remarks:				

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

vegeration - ose scientific fiames of pla	Sampling Point: u-51n21w24-a1						
(Diet size, 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. Populus balsamifera	-		FACW	Total Number of Dominant			
3				Species Across All Strata: 3 (B)			
4							
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)			
6	0			That Are OBE, Thow, or the			
7	0			Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15	85 = Total Cover			Total % Cover of: Multiply by:			
1 . Crataegus crus-galli	60	<b>✓</b>	FAC	0BL speciles 0 x 1 = 0			
2. Ilex verticillata	10		FACW	FACW species <u>85</u> x 2 = <u>170</u>			
3	-	П		FAC speci es 60 x 3 = 180			
4		П		FACU speci es x 4 =			
5				UPL species $\frac{5}{}$ x 5 = $\frac{25}{}$			
6				Column Total s: 220 (A) 655 (B)			
7				Prevalence Index = B/A = 2.977			
		= Total Cove		Hydrophytic Vegetation Indicators:			
Herb Stratum (Plot size: 5 )				Rapid Test for Hydrophytic Vegetation			
1. Onoclea sensibilis	40	<b>✓</b>	FACW				
2. Solidago gigantea	5		FACW				
3. Rubus hispidus	5		FACW	<b>V</b> Prevalence Index is ≤3.0 ¹			
4. Osmunda cinnamomea	4.0		FACW	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
5. Eurybia macrophylia	_		UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
6				Trobematic Hydrophytic Vegetation (Explain)			
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		П		Too. Wood, plants 2 is /7 Com/ or more in disposter.			
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
12				at 2 cast 115 grit (2 2 1 ), regal alooe of 115 grit			
12		 = 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	0			Woody vine - All woody vines greater than 3.28 ft in			
4	0			height.			
	0 =	= Total Cove	r				
				Hudranbudia			
				Hydrophytic Vegetation			
				Present? Yes No			
Remarks: (Include photo numbers here or on a separate sho	eet.)						

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

Soil Sampling Point: u-51n21w24-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth Matrix		Redox Features									
(inches)	Color (		%	Color (ı	noist)	%_	Type <sup>1</sup>	Loc2	Texture	Remarks	
0-8	10YR	2/2	100						Silt Loam		
8-15	10YR	5/3	80	10YR	5/6	20	C		Silt Loam	-	
15-20	10YR	5/2	80	10YR	5/6	20	С	М	Silt Loam		
		-			-						
					-						
					-						
<sup>1</sup> Type: C=Cond	entration. D	=Depletic	n. RM=Red	uced Matrix, C	S=Cover	ed or Coat	ed Sand Gr	ains <sup>2</sup> Loca	ition: PL=Pore Lining. M=N	Matrix	
Hydric Soil I	ndicators:								Indicators for Probl	ematic Hydric Soils: 3	
Histosol (A	A1)					w Surface	(S8) (LRR	₹,		(LRR K, L, MLRA 149B)	
Histic Epip	edon (A2)				( 149B)	(2-)				•	
Black Histi	c (A3)						(LRR R, MLI		Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	Sulfide (A4)						1) LRR K, L	)	Dark Surface (S7) (LRR K, L, M)		
	_ayers (A5)				iy Gleyed eted Matri	Matrix (F2	2)		Polyvalue Below Surface (S8) (LRR K, L)		
	Below Dark S		.11)			rface (F6)			☐ Thin Dark Surface (S9) (LRR K, L)		
	Surface (A1					Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)		
	ck Mineral (S yed Matrix (S					sions (F8)	,		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Rec		34)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Stripped M									Red Parent Material (F21)		
	Dark Surface (S7) (LRR R, MLRA 149B)					<ul><li>✓ Very Shallow Dark Surface (TF12)</li><li>✓ Other (Explain in Remarks)</li></ul>					
<sup>3</sup> Indicators of				and budge to an	marret be a	aracant	alooo diotur	had ar proble		Remarks)	
			iii anu wena	na nyarology	must be p	bresent, ui	iless distui	bed of proble	ematic.		
Restrictive La	yer (if obs	erved):									
Type:									Hydric Soil Present?	Yes ○ No •	
Depth (inch	ies):								-		
Remarks:											