WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/C	County: St. Louis	Samplin	ng Date: 14-Sep-17			
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-50n19w17-e2			
Investigator(s): DPT		Se	ction, Township, Range:	s. 17 t. 50N	R. 19W			
Landform (hillslope, terrace, e	tc.): Lowland		relief (concave, convex, r		Slope: 0.0 % / 0.0 °			
Subregion (LRR or MLRA):	RR K	Lat.: 46 49.0	0464 Long	-92 46.3437	Datum: NAD 83			
Soil Map Unit Name: F137B				NWI classification:	N/A			
Are climatic/hydrologic condit	ions on the site ty	pical for this time of year?	Yes ● No ○	— (If no, explain in Remark	s.)			
Are Vegetation, Soil	, or Hydrol		ırbed? Are "Normal	Circumstances" present?	Yes ● No ○			
Are Vegetation , Soil	, or Hydrol			•	marks_)			
Are Vegetation , Soil , or Hydrology anaturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc								
Hydrophytic Vegetation Prese	ent? Yes •	No O						
Hydric Soil Present?	Yes	No O	Is the Sampled Area within a Wetland?	Yes ● No ○				
Wetland Hydrology Present?	Yes 💿	No O	***************************************					
Hydrology								
Wetland Hydrology Indicator	s:	_		Secondary Indicators (minin	num of 2 required)			
Primary Indicators (minimum	n of one required;	check all that apply)		Surface Soil Cracks (B6)	<u> </u>			
Surface Water (A1)		Water-Stained Leaves (B9))	Drainage Patterns (B10)				
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	(2.3)			
✓ Saturation (A3) Water Marks (B1)		Marl Deposits (B15)	• \	Dry Season Water Table Crayfish Burrows (C8)	e (C2)			
Sediment Deposits (B2)		☐ Hydrogen Sulfide Odor (C1☐ Oxidized Rhizospheres alor		Saturation Visible on Ae	rial Imagery (C9)			
Drift deposits (B3)		Presence of Reduced Iron		Stunted or Stressed Pla				
Algal Mat or Crust (B4)		Recent Iron Reduction in 1	, ,	Geomorphic Position (D	, ,			
☐ 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:								
	res ● No O	Depth (inches):	1					
Water Table Present?	∕es ● No ○	Depth (inches):	0	- V (A			
Saturation Present? (includes capillary fringe)	′es ● No ○	Depth (inches):	Wetland Hyd	rology Present? Yes	No O			
Describe Recorded Data (stre	eam gauge, monito	pring well, aerial photos, prev	vious inspections), if avai	lable:				
Remarks:								

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of p	Sampling Point: w-50n19w17-e2					
(Dlat size) 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30)	% Cover		Status	Number of Dominant Species		
1. Fraxinus nigra		✓	FACW	That are OBL, FACW, or FAC:		
2. Acer rubrum			FAC	Total Number of Dominant		
3	0			Species Across All Strata:5(B)		
4	0					
5				Percent of dominant Species		
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 100.0% (A/B)		
7		$\overline{\Box}$		Prevalence Index worksheet:		
		80 = Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15)		- rotal core	•	0BL species 0 x 1 = 0		
1Acer rubrum	10	✓	FAC			
2	0	$\overline{\Box}$		FACW species 150 x 2 = 300		
3		$\overline{\Box}$	-	FAC speci es <u>20</u> x 3 = <u>60</u>		
4		$\overline{\Box}$		FACU species $0 \times 4 = 0$		
5		$\overline{\Box}$		UPL speci es $0 \times 5 = 0$		
6				Column Totals: 170 (A) 360 (B)		
		$\overline{\Box}$				
7				Prevalence Index = B/A = 2.118		
Herb Stratum (Plot size: 5	10=	= Total Cove	r	Hydrophytic Vegetation Indicators:		
4. Commente elemente	40	✓	FACW	Rapid Test for Hydrophytic Vegetation		
0. 0		<u>~</u>	FACW	✓ Dominance Test is > 50%		
- • • • • • • • • • • • • • • • • • • •		✓		✓ Prevalence Index is ≤3.0 ¹		
3. Carex Intumescens			FACW	Morphological Adaptations ¹ (Provide supporting		
4				data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation ¹ (Explain)		
6				1		
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
8	0					
9	0			Definitions of Vegetation Strata:		
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1				at breast height (DBH), regardless of height.		
2				Continue to the state of the st		
		- -		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall		
Woody Vine Stratum (Plot size: 30)				groater than 6.25 it (iiii) tail		
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			
				Hydrophytic		
				Vegetation Present? Yes No		
				Present? Yes No V		
Remarks: (Include photo numbers here or on a separate	sheet.)					

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

Soil Sampling Point: w-50n19w17-e2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth Matrix Redox Features								
(inches)	Color (moist)		Color (moist)		Loc2	Texture	Remarks	
0-24	10YR 2/2	100				Peat		
			-			-		
						-		
			-					
¹ Type: C=Cond	centration. D=Deplet	ion. RM=Redu	ced Matrix, CS=Covere	ed or Coated Sand Gra	ins ² Loca	ition: PL=Pore Lining. M=M	atrix	
Hydric Soil I	1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: 3							
Histosol (Polyvalue Belov	v Surface (S8) (LRR R	,			
	pedon (A2)		MLRA 149B)		•		(LRR K, L, MLRA 149B)	
Black Hist			Thin Dark Surfa	ace (S9) (LRR R, MLR	A 149B)		x (A16) (LRR K, L, R)	
	Sulfide (A4)			Mineral (F1) LRR K, L)			or Peat (S3) (LRR K, L, R)	
	Layers (A5)		Loamy Gleyed	Matrix (F2)		Dark Surface (S7)		
Depleted	Below Dark Surface ((A11)	Depleted Matrix			Thin Dark Surface	urface (S8) (LRR K, L)	
☐ Thick Dar	k Surface (A12)		Redox Dark Su				(39) (LRR K, L) lasses (F12) (LRR K, L, R)	
Sandy Mu	ick Mineral (S1)		Depleted Dark				in Soils (F19) (MLRA 149B)	
Sandy Gle	eyed Matrix (S4)		Redox Depress	ions (F8)) (MLRA 144A, 145, 149B)	
Sandy Red	dox (S5)					Red Parent Materia		
Stripped M	Matrix (S6)					Very Shallow Dark	• •	
☐ Dark Surfa	ace (S7) (LRR R, MLF	RA 149B)				Other (Explain in R		
3 Indicators of	f hydronhytic yeaetat	ion and wetlan	d hydrology must be r	resent, unless disturb	ed or proble		condition (a)	
			a flydrology fflust be p	reserit, uriless disturbi	ed of proble	ematic.		
	ayer (if observed):							
Type:						Hydric Soil Present?	Yes ● No ○	
Depth (incl	hes):					Tryune son Fresence	162 0 140 0	
Remarks:								