WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/C	county: St. Louis	Samplii	ng Date: 14-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-50n19w21-a4
Investigator(s): SMR		Sec	ction, Township, Range:	s. 21 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 48.2	2356 Lon e	-92 45.0255	Datum: NAD 83
Soil Map Unit Name: F170A				NWI classification:	PFO4/6B
Are climatic/hydrologic condi	tions 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			explain any answers in Re	marks.)
Summary of Findings			,	•	•
Hydrophytic Vegetation Pres	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	within a wettanu:		
Remarks: (Explain alternati	ve procedures here	e or in a separate report.)	<u>I</u>		
Hydrology Wetland Hydrology Indicator	·s:			Secondary Indicators (minin	num of 2 required)
Primary Indicators (minimur	n of one required;	check 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	e (C2)
Sediment Deposits (B2)		Hydrogen Sulfide Odor (C1Oxidized Rhizospheres alor		Crayfish Burrows (C8) Saturation Visible on Ae	rial Imagary (CO)
Drift deposits (B3)		Oxidized Rhizospheres alor Presence of Reduced Iron		Stunted or Stressed Pla	• • •
Algal Mat or Crust (B4)		Recent Iron Reduction in T	• •	Geomorphic Position (D	• •
☐ Iron Deposits (B5)		Thin Muck Surface (C7)	111104 00113 (00)	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:					
	Yes ● No ○	Depth (inches):	8		
Water Table Present?	Yes ● No ○	Depth (inches):	0	V (a o
Saturation Present? (includes capillary fringe)	ſes ● No ○	Depth (inches):	Wetland Hyd	rology Present? Yes	No O
Describe Recorded Data (stre	eam gauge, monito	oring well, aerial photos, prev	vious inspections), if avai	lable:	
Remarks:					

VEGETATION - Use scientific names of plants

VEGETATION - USE Scientific flames of pla	ants			Sampling Point: w-50n19w21-a4
(Diet size: 30	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover		Status	Number of Dominant Species
1 Larix Iaricina	70	✓	FACW	That are OBL, FACW, or FAC:6 (A)
2	0			Total Number of Daminant
3				Total Number of Dominant Species Across All Strata: 6 (B)
4			-	
5			-	Percent of dominant Species
				That Are OBL, FACW, or FAC:100.0% (A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	=	= Total Cove	r	Total % Cover of:
1 Alnus incana	40	✓	FACW	
2. Salix petiolaris	20	~	FACW	FACW species 130 x 2 = 260
	-			FAC speciles x 3 =0
3				FACU species $0 \times 4 = 0$
4				UPL speci es $0 \times 5 = 0$
5				Col umn Total s: 230 (A) 360 (B)
6				Column locals: <u>230</u> (A) <u>300</u> (9)
7				Prevalence Index = B/A =1.565_
Herb Stratum (Plot size: 5	60=	= Total Cove	r	Hydrophytic Vegetation Indicators:
A Observed a serve demade	20		OBL	Rapid Test for Hydrophytic Vegetation
1. Glycerla canadensis		✓	OBL	✓ Dominance Test is > 50%
2. Calamagrostis canadensis		✓	OBL	Prevalence Index is ≤3.0 ¹
3. Carex lacustris		✓	OBL	Morphological Adaptations ¹ (Provide supporting
4. Typha x glauca	10		OBL	data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ Indicators of hydric soil and wetland hydrology must
		Ē		be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2	0			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			Llorb All barbassaya (nan waada) planta ragardlaga af
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				oleo, and woody planto look than oleo it tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= Total Cove	r	
				Hydrophytic
				Vegetation Yes • No •
Remarks: (Include photo numbers here or on a separate sl	neet.)			

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

Soil Sampling Point: w-50n19w21-a4

Depth (inches) Matrix (inches) Redox Features Loc² Texture Remarks 0-24 10YR 2/2 100 Peat
0-24 10YR 2/2 100 Peat
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: 3
✓ Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2) This Police Coast Prairie Redox (A16) (LRR K. L. R)
Black Histic (A3) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Dark Surface (S7) (LRR K, L, M)
Polyvalue Below Surface (S8) (LRR K. L)
Thin Dark Surface (SP) (LRR K, L)
Thick Dark Surface (A12) Sandy Muck Mineral (S1) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Pledmont Floodplain Soils (F10) (MLRA 140R)
Redox Depressions (F8) Redox Depressions (F8)
Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Red Falent Material (121)
P. L. C. C. (CT) (LDD MIDA (LDD)
Utilei (Explain in Remains)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if observed):
Type:
Depth (inches): Hydric Soil Present? Yes • No
Remarks: