WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 12-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: u-51n20w35-e1
Investigator(s): PJK	Section, Township, Range: 9	T. 51N R. 20W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, no	one): convex Slope: 3.5 % / 2.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.1560 Long.	-92 50.2106 Datum: NAD 83
Soil Map Unit Name: B127B		NWI classification: N/A
Are climatic/hydrologic conditions on the site typic	al for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	significantly disturbed? Are "Normal	Circumstances" present? Yes O No •
Are Vegetation , Soil , or Hydrology		xplain any answers in Remarks.)
Summary of Findings - Attach site m	,	
Hydrophytic Vegetation Present? Yes O No	, ⊙	
	Is the Sampled Area within a Wetland?	Yes ○ No •
Wetland Hydrology Present? Yes O No		
Remarks: (Explain alternative procedures here or	in a separate report.)	
Ludvology.		
Hydrology		
Wetland Hydrology Indicators:	ook all that apply)	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; che	Water-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	☐ Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	Microtopographic Relief (D4) FAC-neutral Test (D5)
Sparsery vegetated conteave surface (BS)		
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0	
		ology Present? Yes O No 💿
(includes capillary fringe) Yes V No V	Depth (inches):0	
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspections), if availa	able:
Remarks:		

VEGETATION - Use scientific names of plants

Tree Stratum (Plot size: 30)	Absolute		Indicator	Dominance Test worksheet:	
	% Cover		Status	Number of Dominant Species	
1. Populus tremuloides		✓	FACU	That are OBL, FACW, or FAC: (A)	
2	0			Total Number of Dominant	
3				Species Across All Strata: 4 (B)	
4					
5				Percent of dominant Species	
6				That Are OBL, FACW, or FAC: 0.0% (A/B)	
7				Prevalence Index worksheet:	
7-		Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15	=	i otal Cover		10tal % cover of Multiply by	
1	0_				
2				FACW species 0 x 2 = 0	
3	=			FAC species <u>5</u> x 3 = <u>15</u>	
				FACU species <u>120</u> x 4 = <u>480</u>	
4				UPL speci es $0 \times 5 = 0$	
5				Column Totals: 125 (A) 495 (B)	
6					
7	0			Prevalence Index = B/A = 3.960	
Herb Stratum (Plot size: 5)	0 =	Total Cover		Hydrophytic Vegetation Indicators:	
Herb Stratum (1 lot 3126)				Rapid Test for Hydrophytic Vegetation	
1. Poa pratensis	40	✓	FACU	Dominance Test is > 50%	
2. Taraxacum officinale	20	✓	FACU	Prevalence Index is ≤3.0 ¹	
3. Ranunculus repens	5		FAC		
4. Trifolium repens	20	✓	FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. Phleum pratense			FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
6				Problematic Hydrophytic Vegetation (Explain)	
				¹ Indicators of hydric soil and wetland hydrology must	:
7				be present, unless disturbed or problematic.	
8				Definitions of Vegetation Strata:	
9				Deminions of regetation strata.	
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter	
11				at breast height (DBH), regardless of height.	
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and	
(8) - 1 - 20	95 =	Total Cover		greater than 3.28 ft (1m) tall	
Woody Vine Stratum (Plot size: 30					
1	0			Herb - All herbaceous (non-woody) plants, regardless of	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 Cover			
				Hydrophytic	
				Vegetation	
				Present? Yes V No 🛡	
Remarks: (Include photo numbers here or on a separate she	eet.)				

Sampling Point: u-51n20w35-e1

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

Soil Sampling Point: u-51n20w35-e1

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 ¹	Loc ²	Texture	Remarks	
0-15	10YR	3/4	100						Sandy Clay Loam		
15-20	10YR	3/3	95	10YR	3/6	_ 5	C	M	Silt Loam		
		-							-		
					-						
										P	
1											
		=Depletio	n. RIVI=RE	duced Matrix,	CS=Cover	red or Coat	ed Sand Gr	ains ²Loca	ation: PL=Pore Lining. M=N		
Hydric Soil 1						0 ((CO) (LDD I		Indicators for Probl	ematic Hydric Soils: 3	
Histosol (∟ Poly MLF	,vaiue Beio RA 149B)	ow Surface	(S8) (LRR I	К,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)	
Black Hist	pedon (A2)			☐ Thir	n Dark Sur	face (S9) (LRR R, MLF	RA 149B)		ox (A16) (LRR K, L, R)	
	Sulfide (A4)			Loa	my Mucky	Mineral (F1	I) LRR K, L))	_	or Peat (S3) (LRR K, L, R)	
	Layers (A5)			Loa	my Gleyed	l Matrix (F2)		Dark Surface (S7)		
	Below Dark S	Surface (A	11)	Dep	leted Matr	ix (F3)				Surface (S8) (LRR K, L)	
☐ Thick Dar	k Surface (A	12)				urface (F6)			Thin Dark Surface	Masses (F12) (LRR K, L, R)	
Sandy Mu	ıck Mineral (S	S1)				Surface (F	7)			ain Soils (F19) (MLRA 149B)	
Sandy Gle	eyed Matrix (S4)		☐ Red	lox Depres	sions (F8)				6) (MLRA 144A, 145, 149B)	
Sandy Re	dox (S5)								Red Parent Mater		
Stripped I	Matrix (S6)								Very Shallow Dark	, ,	
☐ Dark Surf	ace (S7) (LRI	R R, MLRA	149B)						Other (Explain in		
³ Indicators of	f hydrophytic	vegetatio	n and wet	land hydrolog	y must be	present, ur	nless disturl	bed or probl	lematic.		
Restrictive L	aver (if obs	erved):									
Type:											
Depth (inc	hes):								Hydric Soil Present?	Yes 🔾 No 💿	
Remarks:											
rtornarto.											
l											