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: w-51n20w35-c1
Investigator(s): PJK	Section, Township, Range	e: S. 35 T. 51N R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex	c, none): concave Slope: <u>0.0</u> % / <u>0.0</u> °
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.3564 Lo	Dong.: -92 50.5571 Datum: NAD 83
Soil Map Unit Name: B107A		NWI classification: PSSE
Are climatic/hydrologic conditions on the site ty	pical for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrol	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	nal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrol		d, explain any answers in Remarks.)
	•	ons, transects, important features, etc
Hydrophytic Vegetation Present? Yes •	No O	
Hydric Soil Present? Yes •	No Sampled Area	Yes No
Wetland Hydrology Present?	No O within a Wetland?	res 😊 Nu 🔾
Remarks: (Explain alternative procedures her		
Hydrology		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required;		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
☐ High Water Table (A2)☐ Saturation (A3)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15)	✓ Moss Trim Lines (B16)✓ 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)	Uther (Explain in Remarks)	
Sparsery regulated contested surface (20)		TAC-neutral rest (B3)
Field Observations: Surface Water Present? Yes No •	Don'th (inches)	
	Depth (inches): 0	
	Depth (inches):0 Wetland Hy	ydrology Present? Yes No
(includes capillary fringe) Yes V No	Depth (inches): 0	
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspections), if a	vailable:
D		
Remarks:		

VEGETATION - Use scientific names of plants

vederation - use scientific fiames of pia	Sampling Point: w-51n20w35-c1				
(2)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species	
1	0			That are OBL, FACW, or FAC: (A)	
2	0			T. I.N. J. CD. J. J.	
3	0			Total Number of Dominant Species Across All Strata: 2 (B)	
4					
5				Percent of dominant Species	
6		\Box		That Are OBL, FACW, or FAC: 100.0% (A/B)	
				Prevalence Index worksheet:	
7					
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove	r	Total % Cover of: Multiply by:	
1	0			OBL speci es <u>40</u> x 1 = <u>40</u>	
2				FACW species	
	-			FAC species x 3 =	
3				FACU species x 4 =0	
4				UPL speci es $0 \times 5 = 0$	
5			-	Column Totals: 100 (A) 160 (B)	
6				Corumn rotars: 100 (A) 180 (5)	
7	0			Prevalence Index = B/A = 1.600	
(Plot size: 5	0 =			Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5)				Rapid Test for Hydrophytic Vegetation	
1. Scirpus atrovirens	40	✓	OBL	✓ Dominance Test is > 50%	
2. Bidens tripartita	10		FACW		
3. Phalaris arundinacea	50	✓	FACW	Y Prevalence Index is ≤3.0 ¹	
4				Morphological Adaptations ¹ (Provide supporting	
				data in Remarks or on a separate sheet)	
5				Problematic Hydrophytic Vegetation ¹ (Explain)	
6				¹ Indicators of hydric soil and wetland hydrology must	
7				be present, unless disturbed or problematic.	
8	0			Definitions of Vegetation Strate.	
9	0			Definitions of Vegetation Strata:	
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter	
1	0			at breast height (DBH), regardless of height.	
12				Carling/about Mandy plants loss than 2 in DDI and	
	=	= Total Cove	•	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 6.26 it (iii) 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.	
4.		= Total Cove		l nongra	
		= Total Cove	Г		
				Hydrophytic Vegetation	
				Present? Yes • No	
Domarker (Include photo numbers have an an account of	upot \				
Remarks: (Include photo numbers here or on a separate sh	eet.)				

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

Soil Sampling Point: w-51n20w35-c1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth <u>Matrix</u>		Redox Features				_			
(inches) Color (moist)	<u></u>	Color (moist)	%_	Type 1	Loc ²	Texture	Remarks		
0-8 10YR 3/1	90	10YR 3/6	10	С	M	Silt Loam			
						-			
						-			
					-				
									
Type: C=Concentration. D=Depletion.	RM=Reduce	ed Matrix. CS=Covere	ed or Coate	ed Sand Gr	ains ² Loca	ition: PL=Pore Lining. M=Ma	atrix		
Hydric Soil Indicators:					Lood	_			
Histosol (A1)		Polyvalue Belov	v Surface	(S8) (I DD I	?		ematic Hydric Soils: 3		
Histic Epipedon (A2)		MLRA 149B)	v Surface	(30) (LKK I	ν,		LRR K, L, MLRA 149B)		
Black Histic (A3)		☐ Thin Dark Surfa	ice (S9) (I	LRR R, MLI	RA 149B)		x (A16) (LRR K, L, R)		
Hydrogen Sulfide (A4)		Loamy Mucky N	/lineral (F1) LRR K, L)		r Peat (S3) (LRR K, L, R)		
Stratified Layers (A5)		Loamy Gleyed I	Matrix (F2))		Dark Surface (S7)			
Depleted Below Dark Surface (A11)	Depleted Matrix	(F3)			Polyvalue Below Surface (S8) (LRR K, L)			
Thick Dark Surface (A12)	,	Redox Dark Sur	face (F6)			Thin Dark Surface			
Sandy Muck Mineral (S1)		Depleted Dark	Surface (F	7)			asses (F12) (LRR K, L, R)		
Sandy Gleyed Matrix (S4)		Redox Depress	ions (F8)				in Soils (F19) (MLRA 149B)		
Sandy Redox (S5)							(MLRA 144A, 145, 149B)		
Stripped Matrix (S6)						Red Parent Materia			
Dark Surface (S7) (LRR R, MLRA 1	49R)					☐ Very Shallow Dark			
						Other (Explain in R	emarks)		
³ Indicators of hydrophytic vegetation a	and wetland	hydrology must be p	resent, un	less distur	oed or proble	ematic.			
Restrictive Layer (if observed):									
Type: <u>rock</u>									
Depth (inches): 8						Hydric Soil Present?	Yes ● No ○		
Remarks:									