WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 11-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: u-51n20w21-e1
Investigator(s): PJK	Section, Township, Range: S.	21 T. 51N R. 20W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, non	
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.9146 Long.:	-92 52.4407 Datum: NAD 83
Soil Map Unit Name: B101A		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical	for this time of year? Yes No (I	f no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology		rcumstances" present? Yes No
Are Vegetation , Soil , or Hydrology		blain any answers in Remarks.)
Summary of Findings - Attach site ma	, , ,	•
Hydrophytic Vegetation Present? Yes No	•	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?	Yes ○ No •
Wetland Hydrology Present? Yes No		
Remarks: (Explain alternative procedures here or in	n a separate report.)	
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; chec		econdary Indicators (minimum of 2 required) 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)	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) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0	
Water Table Present? Yes No •		
Saturation Present?	Depth (inches): 0 Wetland Hydrolo Depth (inches): 0	ogy Present? Yes O No •
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring		le:
Remarks:		
iterial ks.		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pic	Sampling Point: u-51n20w21-e1				
(0) (1 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (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:1 (A)	
2	0			Total Number of Dominant	
3	0			Species Across All Strata:2(B)	
4	0				
5				Percent of dominant Species	
6				That Are OBL, FACW, or FAC: 50.0% (A/B)	
7				Prevalence Index worksheet:	
		= Total Cove	r	Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15)				0BL speci es 0 x 1 = 0	
1	0			FACW species 30 x 2 = 60	
2	0				
3				<u> </u>	
4				FACU speciles 20 x 4 = 80	
5				UPL speci es $30 \times 5 = 150$	
6				Column Totals: <u>80</u> (A) <u>290</u> (B)	
7				Prevalence Index = B/A = 3.625	
		= Total Cove			
Herb Stratum (Plot size: 5		- 10tal COVE	•	Hydrophytic Vegetation Indicators:	
1. Solidago gigantea	30	✓	FACW	Rapid Test for Hydrophytic Vegetation	
0.0.1.1		✓	UPL	Dominance Test is > 50%	
- .			FACU	☐ Prevalence Index is \leq 3.0 ¹	
•				Morphological Adaptations ¹ (Provide supporting	
4. Poa pratensis			FACU	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	
	· ·	= Total Cove	r	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 V No V	
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: u-51n20w21-e1

Profile Descr Depth	iption: (De	escribe to Matrix	tne aepth		t the indicator or co dox Features	nfirm the	absence of indicators.)	
(inches)	Color	(moist)	%	Color (moist)	%Type_1	Loc2	Texture	Remarks
0-6	10YR	3/4	100				Loamy Sand	
							-	
	-	-						
	-							
						-		
							-	
¹ Type: C=Con	centration. I	D=Depletio	n. RM=Red	uced Matrix, CS=Cover	ed or Coated Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=Ma	atrix
Hydric Soil 1	Indicators:			_			Indicators for Proble	ematic Hydric Soils: 3
Histosol ((A1)				w Surface (S8) (LRR R	,		LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)			MLRA 149B)	() (1			x (A16) (LRR K, L, R)
Black Hist	tic (A3)				ace (S9) (LRR R, MLR	A 149B)		or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4)			Mineral (F1) LRR K, L)		Dark Surface (S7)	
Stratified	Layers (A5)			Loamy Gleyed				urface (S8) (LRR K, L)
Depleted	Below Dark	Surface (A	11)	Depleted Matri			Thin Dark Surface	
☐ Thick Dar	k Surface (A	12)		Redox Dark Su				asses (F12) (LRR K, L, R)
Sandy Mu	ıck Mineral ((S1)		Depleted Dark				
_	eyed Matrix			Redox Depress	sions (F8)			in Soils (F19) (MLRA 149B)
Sandy Re							Red Parent Materia) (MLRA 144A, 145, 149B)
	Matrix (S6)							
	ace (S7) (LF	RR R, MLRA	149B)				Very Shallow Dark	
							Other (Explain in R	remarks)
			n and wella	nd hydrology must be p	present, unless disturb	ea or probl	ematic.	
Restrictive L		served):						
Type: <u>rc</u>	ock						Undrie Ceil Bresenta	v
Depth (inc	hes): <u>6</u>						Hydric Soil Present?	Yes ○ No •
Remarks:								