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: w-51n20w20-b1
Investigator(s): PJK	Section, Township, Ran	ge: S. 20 T. 51N R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, conve	ex, none): concave Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.9234	Long.: -92 54.6645 Datum: NAD 83
Soil Map Unit Name: B102A		NWI classification: N/A
Are climatic/hydrologic conditions on the site ty	rpical for this time of year?	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrol	, , , , , , , , , , , , , , , , , , , 	rmal Circumstances" present? Yes • No •
Are Vegetation , Soil , or Hydrol		mai en cambances present.
	•	ed, explain any answers in Remarks.) ions, transects, important features, etc
Hydrophytic Vegetation Present? Yes •	No O	ions, transcess, important reatures, esc
Hydric Soil Present? Yes	No Sampled Are	ea Yes ● No ○
Yes (a)	No O within a Wetland?	res 😊 No 🔾
Remarks: (Explain alternative procedures her		
Hydrology		
Wetland Hydrology Indicators:	ole and all the temples	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; Surface Water (A1)	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)	Uther (Explain in Remarks)	✓ Microtopographic Relief (D4)✓ FAC-neutral Test (D5)
Sparsely regetated concave surface (bb)		FAC-neutral rest (D9)
Field Observations: Surface Water Present? Yes No •	Depth (inches): 0	
	Depth (inches):0 Wetland	Hydrology 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	available:
Remarks:		

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n20w20-b1				
(0) -1 - 20	Absolute	Dominant	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			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: 100.0% (A/B)	
7				Prevalence Index worksheet:	
	0 = Total Cover		r	Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15				0BL species 0 x 1 = 0	
1	0			FACW species 80 x 2 = 160	
2	0				
3				<u> </u>	
4				FACU species $\underline{25}$ x 4 = $\underline{100}$	
5				UPL species $0 \times 5 = 0$	
6.				Column Total s: 105 (A) 260 (B)	
7				Prevalence Index = B/A = 2.476	
		Total Cove			
Herb Stratum (Plot size: 5		- Total Cove		Hydrophytic Vegetation Indicators:	
1 Taraxacum officinale	10		FACU	Rapid Test for Hydrophytic Vegetation	
2. Cirsium arvense			FACU	✓ Dominance Test is > 50%	
		✓	FACW	✓ Prevalence Index is ≤3.0 ¹	
		<u>~</u>	FACW	☐ Morphological Adaptations ¹ (Provide supporting	
••			FACVV	data in Remarks or on a separate sheet)	
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)	
6				1 Tudiostone of budgie seil and wattend budgeton worth	
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	0			at breast height (DBH), regardless of height.	
12				Conline / ohrub Woody plants loss than 2 in DDI and	
	105 =	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)				greater than 6.25 it (iiii) taiiii	
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: 100 0 100 0	
Remarks: (Include photo numbers here or on a separate s	heet.)				

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

Soil Sampling Point: w-51n20w20-b1

Depth	Matrix			dox Features		-	
(inches)	Color (moist)	<u> </u>	olor (moist)		Loc ²	Texture	Remarks
						-	
					-		
		-	-	-			
1 Tuno: C. Con	contration D. Donlation	DM Dodusod M	latrix CS Covers	od or Coated Sand Cra	ins 21 oco	ition: PL=Pore Lining. M=Ma	ntriv.
		RIVI=Reduced IV	iatrix, C3=C0vere	ed of Coated Salid Gra	IIIS ~LUCA		
Hydric Soil 1			1	0 ((00) (100 0		Indicators for Proble	matic Hydric Soils: 3
Histosol (•	L	J Polyvalue Belov MLRA 149B)	w Surface (S8) (LRR R	1	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		,	ace (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black Hist			_	Mineral (F1) LRR K, L)	,	5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed I			Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)	, –	Depleted Matrix				ırface (S8) (LRR K, L)
	Below Dark Surface (A11) _	Redox Dark Sur			Thin Dark Surface	(S9) (LRR K, L)
	k Surface (A12)		Depleted Dark			☐ Iron-Manganese M	asses (F12) (LRR K, L, R)
	uck Mineral (S1)		Redox Depress			Piedmont Floodplai	n Soils (F19) (MLRA 149B)
_	eyed Matrix (S4)		Tredox Depress	10113 (1 0)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re						Red Parent Materia	l (F21)
	Matrix (S6)					Very Shallow Dark	Surface (TF12)
☐ Dark Surf	face (S7) (LRR R, MLRA 1	49B)				✓ Other (Explain in R	emarks)
³ Indicators o	f hydrophytic vegetation	and wetland hyd	rology must be p	resent, unless disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):						
Type:							
Depth (inc	hes).					Hydric Soil Present?	Yes ● No ○
			_				
Remarks:							
No digging n	ear road. Potential uti	lities. Soils ass	umed hydric ba	ased on vegetation.			