WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/0	County: St. Louis	Sampling Dat	e: 13-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-50n20w2-b3
Investigator(s): PJK	Se	ection, Township, Range:	T. 50N	R. 20W
Landform (hillslope, terrace, etc.): Mour	nd Local	relief (concave, convex, n	one): convex Slo	pe:3.5 % / 2.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 50	.8635 Long	-92 49.4872	Datum: NAD 83
Soil Map Unit Name: B127B			NWI classification: N/A	
Are climatic/hydrologic conditions on the	site typical for this time of year?	Yes ● No ○	(If no, explain in Remarks.)	
	Hydrology \square significantly dist		• • • • • • • • • • • • • • • • • • • •	es • No O
	Hydrology naturally probler		xplain any answers in Remarks	
Summary of Findings - Attach		,	•	•
	S O No ⊙		-,	,
	s ○ No ●	Is the Sampled Area	Yes ○ No •	
,	s ○ No ●	within a Wetland?	Tes O NO O	
Remarks: (Explain alternative procedure				
Hydrology				
Wetland Hydrology Indicators:	original disease and the standard		Secondary Indicators (minimum of	2 required)
Primary Indicators (minimum of one req Surface Water (A1))\	Surface Soil Cracks (B6) Drainage Patterns (B10)	
High Water Table (A2)	Water-Stained Leaves (B9☐ Aquatic Fauna (B13)	')	Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C	1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres ald		Saturation Visible on Aerial Im-	agery (C9)
Drift deposits (B3)	Presence of Reduced Iron	n (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)	Other (Explain in Remark	s)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)			FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes N	o ● Depth (inches):			
		0		
	o O Depth (inches):	0 Wetland Hydr	ology Present? Yes O	√o •
Saturation Present? (includes capillary fringe) Yes N	Depth (inches):	0	biogy Fresent: 103 © 1	
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, pre	vious inspections), if avail	able:	
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - USE Scientific fiamles of pia	Sampling Point: u-50n20w2-b3			
(0)-1-1-20	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:
4	0			
5	0			Percent of dominant Species That Are OBL_FACW_or_FAC: 0.0% (A/B)
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7	0			Prevalence Index worksheet:
Plot size: 15	0 =	Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		_		0BL speci es0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC speciles x 3 =0
3				FACU species 100 x 4 = 400
4				UPL species $0 \times 5 = 0$
5				
6	=			Column Totals: 100 (A) 400 (B)
7				Prevalence Index = B/A =4.000_
Herb Stratum (Plot size: 5)		Total Cover		Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
1 Tanacetum vulgare		✓	FACU	☐ Dominance Test is > 50%
2. Cirsium arvense		✓	FACU	Prevalence Index is ≤3.0 ¹
3. Phleum pratense	10		FACU	Morphological Adaptations ¹ (Provide supporting
4. Lotus corniculatus			FACU	data in Remarks or on a separate sheet)
5. Pteridium aquilinum			FACU	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				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: _30)	100 =	Total Cover		greater than 3.28 ft (1m) tall
	0			Hart All back assess (see a see a book at a see a see all a see
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				oles, and woody planto loos than oles it tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
		= Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes No •
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: u-50n20w2-b3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			dox Featu				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc2	Texture	Remarks
							-	
							-	
			-	-				
				-				
N-								
1 Type: C=Con	centration D-Depletion	DM-Peduce	ad Matrix CS-Covere	d or Coate	d Sand Gra	ins 21 ocat	tion: PL=Pore Lining. M=M	atriv
Hydric Soil 1		i. Kivi–Keduce	su matrix, c3-covere	ed or coate	u Janu Gra	iiis Local		
Histosol (Polyvalue Belov		CO) (LDD D		Indicators for Proble	ematic Hydric Soils: 3
	·		MLRA 149B)	v Surrace (58) (LKK K	,	2 cm Muck (A10) ((LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surfa	ace (S9) (L	.RR R, MLR	A 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
Black Hist	Sulfide (A4)		Loamy Mucky !				5 cm Mucky Peat o	or Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed				Dark Surface (S7)	(LRR K, L, M)
	Below Dark Surface (A1	1)	Depleted Matri					urface (S8) (LRR K, L)
	k Surface (A12)	1)	Redox Dark Su				Thin Dark Surface	
			Depleted Dark		')			lasses (F12) (LRR K, L, R)
	ck Mineral (S1) eyed Matrix (S4)		Redox Depress		,			in Soils (F19) (MLRA 149B)
			•) (MLRA 144A, 145, 149B)
Sandy Re							Red Parent Materia	
	Matrix (S6)	140D)					Very Shallow Dark	
	ace (S7) (LRR R, MLRA						Other (Explain in R	Remarks)
³ Indicators of	f hydrophytic vegetation	and wetland	hydrology must be p	resent, unl	ess disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):							
Type:								
Depth (inc	hes):						Hydric Soil Present?	Yes 🔾 No 💿
Remarks:								
			0 "					
No digging of	n pipeline, active bur	ied utilities.	Soils assumed no	n-nyaric b	ased on v	egetation	and hydrology.	