WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Cou	unty: St. Louis	Sampli	ng Date: 13-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-50n19w7-c3
Investigator(s): SMR		Secti	ion, Township, Range:	s. 7 t. 50N	R. 19W
Landform (hillslope, terrace	, etc.): Lowland		lief (concave, convex, n		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K	Lat.: 46 49.93	311 Long	-92 47.9678	Datum: NAD 83
Soil Map Unit Name: B130[)			NWI classification:	PFOB
Are climatic/hydrologic cond	ditions on the site ty	pical for this time of year?	Yes No	— (If no, explain in Remark	s.)
Are Vegetation \square , Soi	_			Circumstances" present?	Yes ● No ○
Are Vegetation , Soi				explain any answers in Re	marks.)
<u> </u>	_ , ,	e map showing samplii	` ,	-	•
Hydrophytic Vegetation Pre	esent? Yes •	No O			
Hydric Soil Present?	Yes		Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present	t? Yes 💿	No O	Within a Weading.		
Remarks: (Explain alterna	tive procedures her	e or in a separate report.)			
Hydrology					
Wetland Hydrology Indicat	ors:			Secondary Indicators (minin	num of 2 required)
Primary Indicators (minim	um of one required;	check all that apply)		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	e (C2)
☐ Water Marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospheres along	Living Roots (C3)	Saturation Visible on Ae	erial Imagery (C9)
Drift deposits (B3)		Presence of Reduced Iron (C	•	Stunted or Stressed Pla	nts (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction in Till	ed Soils (C6)	✓ Geomorphic Position (D	2)
☐ Iron Deposits (B5)		☐ Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aeri	al Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief	(D4)
Sparsely Vegetated Conca	ve Surface (B8)			✓ FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes ● No ○	Depth (inches): 6			
Water Table Present?	Yes ● No ○	Depth (inches):0			
Saturation Present?	Yes ● No ○	Depth (inches): 0	Wetland Hydr	ology Present? Yes	No
(includes capillary fringe) Describe Recorded Data (si	tream gauge, monit	oring well, aerial photos, previo	ous inspections), if avail	able:	
Describe Recorded Data (5	aream gaage, monte	ornig well, derial priotos, previo	as inspections), ii avaii	able.	
Remarks:					

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCING Harnes of pic	Sampling Point: w-50n19w7-c3						
(District 20	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:5 (A)			
2	0			THIN I GO I I I			
3	0			Total Number of Dominant Species Across All Strata: 5 (B)			
4				oposios riaress riii etratar			
5				Percent of dominant Species			
				That Are OBL, FACW, or FAC:100.0% (A/B)			
6							
7	0			Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove	r	Total % Cover of:			
1 Alnus Incana	60	✓	FACW				
2. Salix petiolaris	20	✓	FACW	FACW species 90 x 2 = 180			
				FAC speciles x 3 =0			
3				FACU species $0 \times 4 = 0$			
4				UPL speci es $0 \times 5 = 0$			
5				· ·			
6	0			Col umn Total s: <u>180</u> (A) <u>270</u> (B)			
7				Prevalence Index = B/A =1.500_			
Herb Stratum (Plot size: 5	80 =	= Total Cove	r	Hydrophytic Vegetation Indicators:			
				✓ Rapid Test for Hydrophytic Vegetation			
1. Typha x glauca	40	✓	OBL	✓ Dominance Test is > 50%			
2. Scirpus cyperinus		✓	OBL	✓ Prevalence Index is ≤3.0 ¹			
3. Calamagrostis canadensis	30	✓	OBL				
4. Solidago gigantea			FACW	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
5				Problematic Hydrophytic Vegetation ¹ (Explain)			
				Problematic hydrophytic vegetation - (Explain)			
6				¹ Indicators of hydric soil and wetland hydrology must			
7				be present, unless disturbed or problematic.			
8				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				at breast height (DBH), regardless of height.			
2							
- .	-	= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and			
Woody Vine Stratum (Plot size: 30		- rotar cove	•	greater than 3.28 ft (1m) tall			
1	0			Herb - All herbaceous (non-woody) plants, regardless of			
2	0			size, and woody plants less than 3.28 ft tall.			
3				Woody vine - All woody vines greater than 3.28 ft in			
4				height.			
	0 =	= Total Cove	r				
				History			
				Hydrophytic Vegetation			
				Present? Yes No			
Remarks: (Include photo numbers here or on a separate sh	neet.)	-					
	/						

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

Soil Sampling Point: w-50n19w7-c3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth (inches)	Matrix Color (moist) %		Redox Features Color (moist) % Type ¹ Loc				. <u> </u>	_				
			100	Color (moist)	%	Type 1	Loc²	Texture	Rem	arks	
0-5	10YR	2/2	100						Sandy Clay Loam			
5-17	10YR	4/1		10YR	4/4	_ 25	C		Sandy Clay Loam			
17-20	10YR	4/4	100						Loamy Sand			
						-	-					
		-		-								
		-										
	-	-						-				
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=N	latrix		
Hydric Soil I	ndicators:								Indicators for Probl	ematic Hydri	c Soils: 3	
Histosol (A	•					w Surface	(S8) (LRR	₹,	2 cm Muck (A10)			
Histic Epip					A 149B)	inco (CO) (ווא פפט'י	DA 140D)	Coast Prairie Redo	•	•	
Black Histi					☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) ☐ Loamy Mucky Mineral (F1) LRR K, L)				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4)							,	Dark Surface (S7) (LRR K, L, M)			
	Layers (A5)	Surface (A	11)	Loamy Gleyed Matrix (F2)✓ Depleted Matrix (F3)			Polyvalue Below Surface (S8) (LRR K, L)					
	Below Dark S k Surface (A1		11)	Redox Dark Surface (F6)					Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (S					Surface (F	7)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	yed Matrix (S			Redo	ox Depress	sions (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Red		,							✓ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)✓ Red Parent Material (F21)			
Stripped N									☐ Very Shallow Dark Surface (TF12)			
Dark Surface (S7) (LRR R, MLRA 149B)					Other (Explain in Remarks)							
³ Indicators of	hydrophytic	vegetatio	n and wetla	nd hydrology	must be i	present. ur	nless distur	bed or proble		(Cirial Ka)		
Restrictive La			and work		mast 20 j	p. 000.11.7 u .	nood diotal	504 01 p1051				
Type:	ayer (ii obs	erveu):										
Depth (inch	nes).								Hydric Soil Present?	Yes 💿	No O	
Remarks:	103)											
Remarks.												