WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	St. Louis		Sampli	ing Date: 13-Sep-17
Applicant/Owner: Enbridge			State:	MN	Sampling Point:	w-50n19w7-c5
Investigator(s): SMR		Section, To	wnship, Ran	ge: S. 7	T. 50N	R. 19W
Landform (hillslope, terrace, etc.): Lowland		Local relief (co	oncave, conve	ex, none):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.:	46 49.7563	I	.ong.: .92	2 47.6409	Datum: NAD 83
Soil Map Unit Name: B118A					WI classification:	PSSB
	ignificantl aturally p	y disturbed? roblematic?	(If need	mal Circur ed, explain	, explain in Remarl nstances" present? a any answers in Ro a nsects, impc	Yes • No ·
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo			Sampled Are a Wetland?	a Yes	● No ○	
Remarks: (Explain alternative procedures here or in a separ	rate repor	t.)				

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)	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)	Other (Explain in Remarks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes O No 🖲	Depth (inches): 0					
Water Table Present? Yes O No 🖲	Depth (inches):0	drology Present? Yes \odot No \bigcirc				
Saturation Present? Yes O No •	Depth (inches):0	drology Present? Yes 🔍 No 🔾				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

VEGETATION - Use scientific names of plants

vegeration - use scientific names of plan	Sampling Point: w-50n19w7-c5			
(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% 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:(B)
4				Dereent of dominant Species
5				Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		Total Cover		Total % Cover of: Multiply by:
1. Salix petiolaris	10	\checkmark	FACW	OBL species 90 x 1 = 90
2	0			FACW species $10 \times 2 = 20$
3	0			FAC species $0 \times 3 = 0$
4	0			FACU species <u>10</u> x 4 = <u>40</u>
5	-			UPL species x 5 =
6				Column Totals: <u>110</u> (A) <u>150</u> (B)
7.	0			Prevalence Index = $B/A = 1.364$
	10 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)				Rapid Test for Hydrophytic Vegetation
1. Scirpus atrovirens	20	\checkmark	OBL	✓ Dominance Test is > 50%
2. Scirpus cyperinus	30	\checkmark	OBL	✓ Prevalence Index is \leq 3.0 ¹
3. Calamagrostis canadensis	40		OBL	Morphological Adaptations 1 (Provide supporting
4. Solidago canadensis	10		FACU	data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ 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	0			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
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 Cover		
				Hydrophytic Vegetation
				Present? Yes • No
Remarks: (Include photo numbers here or on a separate she	et.)			

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

US Army Corps of Engineers

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 (Color (n	noist)	%	Type ¹	Loc ²	Texture	Remarks			
0-3	10YR	3/3	100						Clay Loam				
3-11	10YR	3/1	80	10YR	3/4	20	C	Μ	Sandy Clay Loam				
11-20	10YR	4/4	100						Sand				
				, ,			-		-				
		-	-										
		p											
						_	_			-			
										-			
¹ Type: C=Con	centration. D	=Depletic	on. RM=Red	uced Matrix, C	S=Cover	ed or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=I	Matrix			
Hydric Soil 1	Indicators:				-				Indicators for Prob	lematic Hydric Soils : ³			
Histosol ((A1)					w Surface	(S8) (LRR I	٦,	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
Histic Epi	pedon (A2)			_	MLRA 149B)			A 140D)	Coast Prairie Redox (A16) (LRR K, L, R)				
Black Hist					Thin Dark Surface (S9) (LRR R, MLRA 149B)				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	ydrogen Sulfide (A4) Loamy Mucky Mineral (F1) LRR K, L) tratified Lavers (A5) Loamy Gleyed Matrix (F2))	Dark Surface (S7) (LRR K, L, M)							
	Layers (A5)				ted Matr)		Polyvalue Below	Surface (S8) (LRR K, L)			
	Below Dark S		(11)			urface (F6)			Thin Dark Surface (S9) (LRR K, L)				
_	k Surface (A					Surface (F	7)		Iron-Manganese Masses (F12) (LRR K, L, R)				
	uck Mineral (S					sions (F8)	.,		Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy Ge	eyed Matrix (54)			•				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	Matrix (S6)								Red Parent Material (F21)				
	face (S7) (LRI		4 149B)						Very Shallow Dark Surface (TF12)				
									Other (Explain in	Remarks)			
³ Indicators o	f hydrophytic	vegetatio	on and wetla	and hydrology i	must be	present, un	less distur	bed or proble	ematic.				
Restrictive L	ayer (if obs	erved):											
Туре:										··· • • •			
Depth (inc	hes):								Hydric Soil Present?	Yes $ullet$ No $igodot$			
Remarks:													