WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Samplir	Sampling Date: 12-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-51n20w34-b1	
Investigator(s): PJK	Section, T	ownship, Range: S. 34	T. 51N	R. 20W	
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, convex, none):	concave	Slope: 0.0 % / 0.0 °	
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.8341	Long.: -92	51.0214	Datum: NAD 83	
Soil Map Unit Name: B127B	-	1	IWI classification:	N/A	
	ficantly disturbed? rally problematic? ng sampling p	Are "Normal Circun (If needed, explain ooint locations, tra	any answers in Re	-	
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area in a Wetland? Yes	● _{No} ○		
Remarks: (Explain alternative procedures here or in a separate	e report.)				

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)				
Primary Indicators (minimum 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 (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 O	Depth (inches): 0	vdrology Present? Yes 🖲 No 🔾				
Saturation Present? Yes O No •	Wetland H	ydrology Present? Yes 🔍 No 🔾				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

VEGETATION - Use scientific names of plants

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(Plot size: 30)	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover		Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3 4				Species Across All Strata:(B)
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	= Total Cover		Total % Cover of: Multiply by:
	0			OBL species <u>20</u> x 1 = <u>20</u>
1 2				FACW species 80 x 2 = 160
3				FAC species $0 \times 3 = 0$
4.				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6				Column Totals: <u>100</u> (A) <u>180</u> (B)
7				Prevalence Index = $B/A = 1.800$
Herb Stratum (Plot size: 5)	0 =	= Total Cover		Hydrophytic Vegetation Indicators:
	<i>a</i> -	_		Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea			FACW	✓ Dominance Test is > 50%
2. Scirpus cyperinus	<u>20</u> 10		OBL FACW	✓ Prevalence Index is ≤3.0 1
3. Symphyotrichum novae-angliae			FACW	Morphological Adaptations ¹ (Provide supporting
4 5				data in Remarks or on a separate sheet)
6				Problematic Hydrophytic Vegetation ¹ (Explain)
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10	0			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			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.
	=	= Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes Vo V
Remarks: (Include photo numbers here or on a separate she	eet.)			

* 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	-	Matrix		Redox Features					·		
(inches)	Color (%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4	10YR	3/3	100						Loam		
4-14	10YR	3/2	90	10YR	4/4	10	C	Μ	Sandy Loam		
14-20	10YR	4/2	90	10YR	4/6	10	С	М	Silt Loam		
		-	-	a	-		-	-	· · · · · · · · · · · · · · · · · · ·		
			-								
1 Type: C-Con	centration D	-Depletic	n RM-Red	uced Matrix (^S_Cover	ed or Coat	ed Sand Gr	ains 21 oc	ation: PL=Pore Lining. M=Ma	trix	
Hydric Soil 1		Depietic	JII. KIM-Keu		55-00761				-		
Histosol (Poly	alue Belo	w Surface	(S8) (LRR I	b	Indicators for Proble		
	bedon (A2)				A 149B)	W Surface	(50) (ERR 1	x ,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Black Hist				Thin Dark Surface (S9) (LRR R, MLRA 149B)		RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)				
	Sulfide (A4)				Loamy Mucky Mineral (F1) LRR K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M)				
Stratified	Layers (A5)					Matrix (F2	2)		Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L)		
Depleted	Below Dark S	Surface (A	(11)		epleted Matrix (F3)		Thin Dark Surface (S9) (LRR K, L)				
Thick Dar	k Surface (A	12)		_		urface (F6)			☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
	ck Mineral (S				Depleted Dark Surface (F7) Redox Depressions (F8)		Piedmont Floodplain Soils (F19) (MLRA 149B)				
	eyed Matrix (S4)			ix Depres	Sions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Re									Red Parent Material (F21)		
	Matrix (S6)					Very Shallow Dark Surface (TF12)					
	ace (S7) (LRI								Other (Explain in Re	emarks)	
³ Indicators of	f hydrophytic	vegetatio	on and wetla	and hydrology	must be	present, ur	nless disturl	bed or prob	lematic.		
Restrictive L	ayer (if obs	erved):									
Туре:											
Depth (inc	hes):								Hydric Soil Present?	Yes 🔍 No 🔾	
Remarks:											