WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Samplii	Sampling Date: 08-Sep-17			
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-51n21w23-a1			
Investigator(s): SMR	Section, T	ownship, Range: S. 23	T. 51N	R. 21W			
Landform (hillslope, terrace, etc.): Lowland	Local relief (d	concave, convex, none):	concave	Slope: <u>0.0</u> % / <u>0.0</u> °			
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.2674	Long.: -9	2 57.2442	Datum: NAD 83			
Soil Map Unit Name: B107A	ap Unit Name: B107A NWI classification: PSS/EMB						
	ificantly disturbed? rally problematic? ing sampling p	(If needed, explain	nstances" present? 1 any answers in Re ansects, impo				
Hydrophytic Vegetation Present?Yes 		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	drology Present? Yes \odot No \bigcirc		
Saturation Present? Yes O No •	Depth (inches):0	drology Present? Yes $ullet$ No $igloodow$		
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections), if ava	ailable:		
Remarks:				

VEGETATION - Use scientific names of plants

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	Absolute		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	0			Species Across All Strata: <u>3</u> (B)
4				
5	0			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)	0 =	Total Cover		Total % Cover of: Multiply by:
1,	0			OBL species $60 \times 1 = 60$
				FACW species40 x 2 =80
2				FAC species x 3 =
3	_			FACU species $0 \times 4 = 0$
4				UPL species x 5 =0
5 6				Column Totals:(A)140(B)
		\square		
7		Total Cover		Prevalence Index = B/A = <u>1.400</u>
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
1. Calamagrostis canadensis	40	\checkmark	OBL	✓ Rapid Test for Hydrophytic Vegetation
2. Phalaris arundinacea			FACW	✓ Dominance Test is > 50%
3. Carex lacustris			OBL	✓ Prevalence Index is \leq 3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting
5				data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10				Tare Mandu plante 2 in (7 C are) as more in diameter
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12				
12		Total Cover		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 3.26 ft (Th) tail.
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.
		Total Cover		
				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.

US Army Corps of Engineers

Profile Descr	iption: (De	scribe to	the depth	needed to docu	ument the in	dicator or co	onfirm the	absence of indicators.)			
Depth (inchos)		Matrix			Redox Fea			- <u>-</u> .			
(inches)		(moist)	<u>%</u>	Color (mo	ist) %	Type 1	Loc ²	Texture	Remarks		
0-4	10YR	2/1	100				·	Silt Loam			
4-16	10YR	4/1	80	10YR	4/4 20	C	M	Silt Loam			
				ь <u> </u>							
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	-										
							·				
¹ Type: C=Con	centration. D)=Depletic	n. RM=Red	uced Matrix. CS=	Covered or Co	ated Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	atrix		
Hydric Soil 1		Dopiotie					2000				
Histosol (e Below Surfac	ا مم (20) (I م	п	Indicators for Proble	ematic Hydric Soils : ³		
	pedon (A2)			MLRA 14		Je (30) (LKK I	Ν ,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)		
Black Hist				Thin Dar	ark Surface (S9) (LRR R, MLRA 149B)			Coast Prairie Redox (A16) (LRR K, L, R)			
	nc (AS) n Sulfide (A4)			Loamy M	lucky Mineral ((F1) LRR K, L)		or Peat (S3) (LRR K, L, R)		
	Layers (A5)				ileyed Matrix (Dark Surface (S7) (LRR K, L, M)			
	Below Dark	Surface (A	11)		I Matrix (F3)				Polyvalue Below Surface (S8) (LRR K, L)		
	k Surface (A		(11)		ark Surface (F	6)		Thin Dark Surface (S9) (LRR K, L)			
	ick Mineral (Depleted	I Dark Surface	(F7)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	eyed Matrix (epressions (F8				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Ge		,34)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
	Matrix (S6)							Red Parent Material (F21)			
	ace (S7) (LR		\ 1/0P\					Very Shallow Dark			
								Other (Explain in F	Remarks)		
³ Indicators of	f hydrophytic	c vegetatic	on and wetla	ind hydrology mu	st be present,	unless distur	bed or proble	ematic.			
Restrictive L	ayer (if obs	erved):									
Type: <u>rc</u>	ock										
Depth (inc	hes): <u>16</u>							Hydric Soil Present?	Yes $ullet$ No $igodot$		
Remarks:								1			
Remarks.											