WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 11-Sep-17
Applicant/Owner: Enbridge	State:	MN Sampling Point: w-51n20w21-d1
Investigator(s): PJK	Section, Township, Rang	e: S. 21 T. 51N R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex	
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.9321 Lo	ong.: -92 52.6260
Soil Map Unit Name: B127B		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for this t	ime of year? Yes No	(If no, explain in Remarks.)
	•	nal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology na		d, explain any answers in Remarks.)
Summary of Findings - Attach site map show	•	
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?	Yes No
Wetland Hydrology Present? Yes No	Willin a Welland:	100 - 110 -
Remarks: (Explain alternative procedures here or in a separa	ate report.)	
Hydrology Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:	t. A	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that Surface Water (A1) Water-Sta	ained Leaves (B9)	
	auna (B13)	Moss Trim Lines (B16)
	osits (B15)	Dry Season Water Table (C2)
	n Sulfide Odor (C1)	Crayfish Burrows (C8)
	Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	on Reduction in Tilled Soils (C6)	✓ Geomorphic Position (D2)
	k Surface (C7)	Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Example 2) ☐ Sparsely Vegetated Concave Surface (B8)	xplain in Remarks)	
Sparsely vegetated concave surface (bb)		FAC-Heutidi Test (D3)
Field Observations: Surface Water Present? Yes No Depth ((inches): 0	
	<u> </u>	
		ydrology Present? Yes No
(includes capillary fringe) Yes V No V Depth ((inches):0	
Describe Recorded Data (stream gauge, monitoring well, aer	ial photos, previous inspections), if a	vailable:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCIFIC Harries of pic	Sampling Point: w-51n20w21-d1			
(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:3 (A)
2	0			T. I.W. J. C. C. C. C.
3	0			Total Number of Dominant Species Across All Strata: 3 (B)
4				
5				Percent of dominant Species
6		\Box		That Are OBL, FACW, or FAC: 100.0% (A/B)
				Prevalence Index worksheet:
7				
Sapling/Shrub Stratum (Plot size: 15		= Total Cove	r	Total % Cover of: Multiply by:
1. Salix bebbiana	10		FACW	OBL species 10 x 1 = 10
2 Salix petiolaris	40	✓	FACW	FACW species $70 \times 2 = 140$
O. Alaya Income	10		FACW	FAC speciles
			-171011	FACU species $0 \times 4 = 0$
4				UPL species $0 \times 5 = 0$
5				Column Totals: 130 (A) 300 (B)
6	-		-	Column Total S.
7	0			Prevalence Index = B/A = 2.308
Herb Stratum (Plot size: 5)	60=	= Total Cove	r	Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
1. Equisetum hyemale		✓	FAC	✓ Dominance Test is > 50%
2. Equisetum arvense	20	✓	FAC	✓ Prevalence Index is ≤3.0 ¹
3. Solidago gigantea	10		FACW	
4. Scirpus cyperinus			OBL	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				Problematic Hydrophytic Vegetation (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				beamtions of Vegetation Strata.
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2	0			Sanling/shrub Woody plants loss than 3 in DBH and
	70 =	= Total Cove	r	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 6126 it (iiii) taiiii
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.
т.	0 =	= Total Cove		lg
		- Total Cove	ı	
				Hydrophytic Vegetation
				Present? Yes • No
Domarker (Include photo numbers here are a constant	100t)			
Remarks: (Include photo numbers here or on a separate sh	icel.j			

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

Soil Sampling Point: w-51n20w21-d1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth <u>Matrix</u> Re					Redox Features			_		
(inches)	Color	(moist)	%	Color (moist)	%_	Type ¹	Loc2	Texture	Remarks
0-8	10YR	3/2	90	10YR	3/6	10	С	М	Sandy Loam	
8-20	10YR	4/3	80	10YR	4/6	20	С	M	Sandy Clay Loam	
									-	
-										
					-					
	-					-				
1 Type: C=Cond	centration. [=Depletio	n. RM=Red	uced Matrix.	CS=Covere	ed or Coat	ed Sand G	ains ² Loca	ation: PL=Pore Lining. M=N	
Hydric Soil I		- Bop.o						2000	-	
Histosol (A				Dolar Polar	zalue Rolo	w Surface	(S8) (LRR	R		ematic Hydric Soils: 3
Histic Epip	•				4 149B)	w Surface	(30) (LIKIK	IX,		(LRR K, L, MLRA 149B)
Black Histi				Thin	Dark Surfa	ace (S9) (LRR R, ML	RA 149B)		ox (A16) (LRR K, L, R)
	Sulfide (A4)	١		Loan	ny Mucky I	Mineral (F1	I) LRR K, L)		or Peat (S3) (LRR K, L, R)
	Layers (A5)	,		Loan	ny Gleyed	Matrix (F2))		Dark Surface (S7)	
	Below Dark	Surface (A	11)	☐ Depl	eted Matri	x (F3)				Surface (S8) (LRR K, L)
	k Surface (A		11)	✓ Redo	x Dark Su	rface (F6)			Thin Dark Surface	
	ck Mineral (Depl	eted Dark	Surface (F	7)			Masses (F12) (LRR K, L, R)
	yed Matrix			Redo	x Depress	sions (F8)				ain Soils (F19) (MLRA 149B)
Sandy Rec		(34)								b) (MLRA 144A, 145, 149B)
Stripped N									Red Parent Materi	
	ace (S7) (LR	RR MIRA	149R)						☐ Very Shallow Dark	
									Other (Explain in I	Remarks)
³ Indicators of	hydrophytic	vegetatio	n and wetla	nd hydrology	must be p	oresent, ur	nless distur	bed or probl	lematic.	
Restrictive La	ayer (if obs	served):								
Type:										
Depth (inch	nes):								Hydric Soil Present?	Yes No
Remarks:										
1										
I										