WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis		Sampling Date: 12-Sep-17
Applicant/Owner: Enbridge	Sta	te: MN Sampling	g Point: w-51n20w34-a1
Investigator(s): PJK	Section, Township, R	Range: S. 34 T.	51N R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, co		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K Lat.:	- • 46 51.9292	Long.: -92 51.1537	Datum: NAD 83
Soil Map Unit Name: B126D		NWI classi	ification: N/A
Are climatic/hydrologic conditions on the site typical for this time of	fyear? Yes • No	(If no, explain i	n Remarks.)
	•	Normal Circumstances	·
	-	eeded, explain any answ	
Summary of Findings - Attach site map showing	•		·
Hydrophytic Vegetation Present? Yes No			
Hydric Soil Present? Yes No	Is the Sampled within a Wetlan		
Wetland Hydrology Present? Yes No	Willing Wedan	iur	
Remarks: (Explain alternative procedures here or in a separate rep	port.)		
Hydrology			
Wetland Hydrology Indicators:		Socondary Indica	ters (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply))	Secondary Indica	tors (minimum of 2 required) Cracks (B6)
Surface Water (A1) Water-Stained L		Drainage Pat	
High Water Table (A2) Aquatic Fauna (F	, ,	Moss Trim Li	nes (B16)
Saturation (A3) Marl Deposits (B	315)	Dry Season \	Water Table (C2)
Water Marks (B1) Hydrogen Sulfide	e Odor (C1)	Crayfish Burr	
	pheres along Living Roots (C3)		isible on Aerial Imagery (C9)
Drift deposits (B3) Presence of Red			tressed Plants (D1)
	fluction in Tilled Soils (C6)	✓ Geomorphic	• •
Thirt wack Surfa	• •	Shallow Aqui	aphic Relief (D4)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in	ı Remarks)	FAC-neutral	
		· 	
Field Observations: Surface Water Present? Yes No Depth (inches)): O		
Saturation Present? Ves No Denth (inches)	Wetlar	nd Hydrology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho		if available:	
33 3 3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Remarks:			

VEGETATION - Use scientific names of plants

(Dlatarian, 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30	% Cover	_	Status	Number of Dominant Species		
1. Fraxinus nigra	70	✓	FACW	That are OBL, FACW, or FAC:3 (A)		
2. Populus tremuloides	15		FACU	Total Number of Dominant		
3Tilia americana	15		FACU	Species Across All Strata:3 (B)		
4	0					
5				Percent of dominant Species That Are OBL_FACW_or_FAC:100.0%(A/B)		
6	0			That Are OBL, FACW, or FAC:100.0% (A/B)		
7				Prevalence Index worksheet:		
(Dialata 45	100 =	= Total Cove	r	Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15)				0BL speci es 0 x 1 = 0		
1. Alnus incana		✓	FACW	FACW species 200 x 2 = 400		
2				FAC speciles x 3 =		
3				FACU speciles 30 x 4 = 120		
4	0			' '		
5	0			· ·		
6	0			Column Totals: <u>230</u> (A) <u>520</u> (B)		
7	0			Prevalence Index = B/A =		
	30 =	= Total Cove	r	Hydrophytic Vegetation Indicators:		
Herb Stratum (Plot size: 5)				Rapid Test for Hydrophytic Vegetation		
1. Phalaris arundinacea	100	✓	FACW	✓ Dominance Test is > 50%		
2	0_					
3				✓ Prevalence Index is ≤3.0 ¹		
4				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation ¹ (Explain)		
6				Froblematic Hydrophytic vegetation (Explain)		
7				¹ Indicators of hydric soil and wetland hydrology must		
8				be present, unless disturbed or problematic.		
9				Definitions of Vegetation Strata:		
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
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 Cove	r	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.		
	0					
3	0			Woody vine - All woody vines greater than 3.28 ft in height.		
4		- Total Cava		neight.		
	=	= Total Cove	r			
				Hydrophytic		
				Vegetation		
				Present? Yes • No ·		
Remarks: (Include photo numbers here or on a separate she	et.)					

Sampling Point: w-51n20w34-a1

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

Soil Sampling Point: w-51n20w34-a1

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	Rer	marks	
0-4	10YR	3/2	100						Loam			
4-20	10YR	4/2	- 80	10YR	4/6	20	C		Silt Loam			
							_					
-												
		-	_	-	-		-					
		-	-	-	-							
			-	-						-		
			-	-								
										_		
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Rec	luced Matrix,	CS=Cover	ed or Coat	ted Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=	Matrix		
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³												
Histosol (A1)					w Surface	(S8) (LRR	R,				
Histic Epip	pedon (A2)			_	A 149B)				☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B) ☐ Coast Prairie Redox (A16) (LRR K, L, R)			
Black Hist	ic (A3)						(LRR R, ML		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4)						1) LRR K, L)	Dark Surface (S7) (LRR K, L, M)			
	Layers (A5)				ny Gieyed eted Matri	Matrix (F2	<u>(</u>)		Polyvalue Below Surface (S8) (LRR K, L)			
	Below Dark S		11)			ırface (F6)			Thin Dark Surface (S9) (LRR K, L)			
	k Surface (A			_		Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)			
	ck Mineral (S				ox Depress		• ,		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Sality Gleyet Matrix (34)					Mesic Spodic (TA6) (MLRA 144A, 145, 149B)						
	☐ Sandy Redox (S5) ☐ Stripped Matrix (S6)					Red Parent Material (F21)						
Dark Surface (S7) (LRR R, MLRA 149B)				✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)								
							. I P I			Remarks)		
³ Indicators of			n and wetta	ana nyarology	must be	present, ui	niess aistur	bea or proble	ematic.			
Restrictive La	ayer (if obs	erved):										
Type:									Hydric Soil Present?	Yes	No O	
Depth (incl	nes):								,	163 🗢	110 😊	
Remarks:												