## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 3	1-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-51	n24w25-a2
Investigator(s): SMR		Section, Township, Range:	<b>S.</b> 25 <b>T.</b> 51N	<b>R.</b> 24W
Landform (hillslope, terrace, etc.): Lov	wland	Local relief (concave, convex, r		° /°
Subregion (LRR or MLRA): LRR K	Lat.: 4	46 52.4074 <b>Long</b>		um: NAD 83
Soil Map Unit Name: 454C			NWI classification: N/A	
Are climatic/hydrologic conditions on th	ne site typical for this time of ve	ear? Yes O No •	(If no, explain in Remarks.)	
			Circumstances" present? Yes	No 🔾
	r Hydrology		explain any answers in Remarks.)	
Summary of Findings - Attac		,		atures, etc
	es No O		-,,	<b>,</b>
7, 7	res   No	Is the Sampled Area	Yes ● No ○	
,	res • No O	within a Wetland?	163 V 140 V	
Remarks: (Explain alternative procedu		• \		
U-dualogy.				
Hydrology Western Hydrology Indicators				_
Wetland Hydrology Indicators:	:d. shook all that apply)		Secondary Indicators (minimum of 2 red	uired)
Primary Indicators (minimum of one real Surface Water (A1)	equired; check all that apply)  Water-Stained Leav	voc (PO)	Surface Soil Cracks (B6)  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 O		Crayfish Burrows (C8)	
Sediment Deposits (B2)		res along Living Roots (C3)	Saturation Visible on Aerial Imagery	(C9)
Drift deposits (B3)	Presence of Reduce	ed Iron (C4)	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduct	tion in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface	` ,	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (B	U Other (Explain in Re	emarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (D	8)		✓ FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes	No Depth (inches):	•		
	1. (	0		
	No • Depth (inches):		ology Present? Yes • No	
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):	0	ology i resent.	
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos	s, previous inspections), if avai	able:	
Remarks:				

## **VEGETATION - Use scientific names of plants**

vederation - ose scientific fiames of pr	Sampling Point: w-51n24w25-a2						
	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:			
			Status	Number of Dominant Species			
1. Fraxinus nigra		<b>✓</b>	FACW	That are OBL, FACW, or FAC: (A)			
2	0			Total Number of Dominant			
3	0			Species Across All Strata: 2 (B)			
4							
5				Percent of dominant Species			
				That Are OBL, FACW, or FAC:100.0% (A/B)			
6				B			
7				Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15 )	=	= Total Cove	r	Total % Cover of: Multiply by:  OBL species 90 x 1 = 90			
1	0						
2				FACW species			
3	=	ī		FAC speciles x 3 =			
				FACU species0 x 4 =0			
4				UPL species $0 \times 5 = 0$			
5				Column Totals: 160 (A) 230 (B)			
6				Column Total S (A)			
7	0			Prevalence Index = B/A = 1.438			
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:			
		_		Rapid Test for Hydrophytic Vegetation			
1. Carex stricta	90	✓	OBL	✓ Dominance Test is > 50%			
2	0			✓ Prevalence Index is ≤3.0 ¹			
3				l			
4				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
5				l —			
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
7				be present, unless disturbed or problematic.			
8	0			Definitions of Venetation Streets			
9	0			Definitions of Vegetation Strata:			
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
1				at breast height (DBH), regardless of height.			
2		Ī					
	90 = 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 3.20 ft (1111) tall			
1	0			Herb - All herbaceous (non-woody) plants, regardless of			
2	0			size, and woody plants less than 3.28 ft tall.			
3							
				Woody vine - All woody vines greater than 3.28 ft in height.			
4				neight.			
		= Total Cove	r				
				Hydrophytic Vegetation			
				Present? Yes • No			
Remarks: (Include photo numbers here or on a separate s	hoot \						
Action (Aliciade prioto hambers here of on a separate s							

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-51n24w25-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth			Redox Features									
(inches)	Color (		%	Color	(moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Ren	narks	
0-6	10YR	2/1	100						Clay Loam	_		
6-20	10YR	4/1	80	10YR	4/4	20	C		Clay Loam			
							_					
				-					-	-		
		-										
				-								
1 Type: C=Cond	centration. D	=Depletio	n. RM=Rec	luced Matrix,	CS=Cover	ed or Coat	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=			
Hydric Soil I		•							Indicators for Prob		ic Soils : 3	
Histosol (/				Poly	value Belo	w Surface	(S8) (LRR	R,				
Histic Epip	pedon (A2)			MLR	A 149B)				2 cm Muck (A10)			
☐ Black Hist	ic (A3)						(LRR R, ML		Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Hydrogen	Sulfide (A4)						1) LRR K, L	)	Dark Surface (S7) (LRR K, L, M)			
Stratified	Layers (A5)					Matrix (F2	2)		Polyvalue Below Surface (S8) (LRR K, L)			
	Below Dark S		11)		leted Matri				Thin Dark Surface (S9) (LRR K, L)			
	k Surface (A1			_		ırface (F6) Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)			
	ck Mineral (S				ox Depress		-7)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	eyed Matrix (S	S4)		Red	ол Бергез.	310113 (1 0)			Mesic Spodic (TA	6) (MLRA 144 <i>A</i>	A, 145, 149B)	
Sandy Red									Red Parent Mate	rial (F21)		
Stripped N	viatrix (S6) ace (S7) (LRF	OD MIDA	\ 140D\						Very Shallow Dai		2)	
									Other (Explain in	Remarks)		
<sup>3</sup> Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	/ must be	present, ur	nless distur	bed or proble	ematic.			
Restrictive La	ayer (if obs	erved):										
Type:									Hudria Cail Dracant	<b>v</b>	No O	
Depth (inch	hes):								Hydric Soil Present?	Yes •	No U	
Remarks:												