## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/0	County: Aitkin	Samplin	<b>Date:</b> 06-Sep-17
Applicant/Owner: Enbridge			State: Mi	Sampling Point:	w-51n23w24-b1
Investigator(s): DPT		Se	ection, Township, Range:	<b>s.</b> 24 <b>t.</b> 51N	<b>R.</b> 23W
Landform (hillslope, terrace, et	:.): Lowland		relief (concave, convex, r		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LF	R K	<b>Lat.:</b> 46 53	.1984 <b>Lon</b> e	-93 11.9907	Datum: NAD 83
Soil Map Unit Name: 204B				NWI classification:	PFO1B
Are climatic/hydrologic condition	ons on the site ty	pical for this time of year?	Yes ● No ○	— (If no, explain in Remarks	s.)
Are Vegetation, Soil _	, or Hydrol	ogy  significantly dist	urbed? Are "Norma	Circumstances" present?	Yes ● No ○
Are Vegetation , Soil	, or Hydrol	ogy  naturally probler	natic? (If needed,	explain any answers in Rei	narks.)
Summary of Findings	Attach site		,	• •	•
Hydrophytic Vegetation Preser	t? Yes 💿	No O			
Hydric Soil Present?	Yes	No O	Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present?	Yes	No O	William W. Calana.		
Hydrology					
Wetland Hydrology Indicators				Secondary Indicators (minim	num of 2 required)
Primary Indicators (minimum	of one required;	check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves (B9	9)	Drainage Patterns (B10)	
✓ High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3) Water Marks (B1)		Marl Deposits (B15)		Dry Season Water Table Crayfish Burrows (C8)	e (C2)
Sediment Deposits (B2)		<ul><li>Hydrogen Sulfide Odor (C</li><li>Oxidized Rhizospheres ald</li></ul>		Saturation Visible on Ae	rial Imagery (C0)
Drift deposits (B3)		Presence of Reduced Iron		Stunted or Stressed Plan	
Algal Mat or Crust (B4)		Recent Iron Reduction in	• •	Geomorphic Position (D	, ,
Iron Deposits (B5)		☐ Thin Muck Surface (C7)		Shallow Aquitard (D3)	,
Inundation Visible on Aerial Ir	nagery (B7)	Other (Explain in Remarks	s)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave S	urface (B8)			FAC-neutral Test (D5)	
Field Observations:					
	es • No O	Depth (inches):	5		
Water Table Present? Ye	es • No O	Depth (inches):	0	Vaa (	<b></b>
Saturation Present? (includes capillary fringe)	s • No O	Depth (inches):	0 Wetland Hyd	rology Present? Yes	● No ○
Describe Recorded Data (stream	m gauge, monito	oring well, aerial photos, pre	vious inspections), if avai	lable:	
Remarks:					
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## **VEGETATION - Use scientific names of plants**

VEGETATION - USE Scientific fiames of pia	Sampling Point: w-51n23w24-b1			
- C. (Blot size: 30	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover		Status	Number of Dominant Species
1. Fraxinus nigra		<b>✓</b>	FACW	That are OBL, FACW, or FAC:6(A)
2				Total Number of Dominant
3				Species Across All Strata:6(B)
4	0			
5	0			Percent of dominant Species That Are OBL_FACW_or_FAC: 100.0% (A/B)
6				That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	80=	= Total Cove	r	Total % Cover of: Multiply by:
1 Alnus incana	10	<b>✓</b>	FACW	0BL species 20 x 1 = 20
2 Ilex verticillata	10	<b>✓</b>	FACW	FACW species 130 x 2 = 260
3				FAC species $0 \times 3 = 0$
		П		FACU species x 4 =0
4				UPL species $0 \times 5 = 0$
5				Column Totals: 150 (A) 280 (B)
6			-	
7				Prevalence Index = B/A = 1.867
Herb Stratum (Plot size: 5	=	= Total Cove	r	Hydrophytic Vegetation Indicators:
A Committee to the committee of the comm	20		FACIAL	Rapid Test for Hydrophytic Vegetation
1 Carex Intumescens		<b>V</b>	FACW	✓ Dominance Test is > 50%
2. Calamagrostis canadensis		<b>V</b>	OBL	<b>V</b> Prevalence Index is ≤3.0 <sup>1</sup>
3. Impatiens capensis		<b>V</b>	FACW	Morphological Adaptations <sup>1</sup> (Provide supporting
4				data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6	0			
7	0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				
Woody Vine Stratum (Plot size: 30 )	-	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
				Liberto Alliberto con con ferencia de la comunidad de la comun
1			-	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Size, and woody planto loss than 6.25 it tail.
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	=	= Total Cove	r	
				Hydrophytic Vegetation Present?  Yes  No
Remarks: (Include photo numbers here or on a separate sh	neet.)			

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

Soil Sampling Point: w-51n23w24-b1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix		Redox Features							
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u> <u>Type</u> <sup>1</sup>	Loc²	Texture	Remarks		
0-20	10YR 2/1	100				Muck			
-						-			
<sup>1</sup> Type: C=Cond	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covere	d or Coated Sand Gra	ains <sup>2</sup> Loca	tion: PL=Pore Lining. M=Ma	atrix		
Hydric Soil I	ndicators:					Indicators for Broble	ematic Hydric Soils: 3		
Histosol (A			Polyvalue Below	v Surface (S8) (LRR R	1				
Histic Epip			MLRA 149B)	. , ,		_	(LRR K, L, MLRA 149B)		
Black Histi			Thin Dark Surfa	ice (S9) (LRR R, MLR	A 149B)		x (A16) (LRR K, L, R)		
	Sulfide (A4)			Mineral (F1) LRR K, L)			or Peat (S3) (LRR K, L, R)		
	Layers (A5)		Loamy Gleyed N	Matrix (F2)		Dark Surface (S7)			
Depleted I	Below Dark Surface (A	11)	Depleted Matrix			Thin Dark Surface	urface (S8) (LRR K, L)		
☐ Thick Dark	k Surface (A12)		Redox Dark Sur				(59) (LRR K, L) asses (F12) (LRR K, L, R)		
Sandy Mu	ck Mineral (S1)		Depleted Dark S				in Soils (F19) (MLRA 149B)		
Sandy Gle	yed Matrix (S4)		Redox Depressi	ions (F8)			) (MLRA 144A, 145, 149B)		
Sandy Red	dox (S5)					Red Parent Materia			
Stripped M	Matrix (S6)					Very Shallow Dark Surface (TF12)			
☐ Dark Surfa	ace (S7) (LRR R, MLRA	149B)				Other (Explain in Remarks)			
3 Indicators of	hydrophytic vegetatio	n and watlan	d hydrology must be p	racant unlace dicturh	ed or proble		oriuns)		
		ii and wetian	a flydrology ffiast be p	resent, unless disturb	ed of proble	inatic.			
	ayer (if observed):								
Type:						Hydric Soil Present?	Yes ● No ○		
Depth (inch	nes):					Tryunc son Fresenc.	163 C NO C		
Remarks:									