## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City	<b>/County:</b> Aitkin	Samplin	<b>19 Date:</b> 22-Aug-17
Applicant/Owner: Enbridge			State: MI	Sampling Point:	w-51n26w33-a1
Investigator(s): DPT/SMR		S	Section, Township, Range:	<b>s.</b> 33 <b>t.</b> 51N	<b>R.</b> 26W
Landform (hillslope, terrace, etc	:.): Lowland	Loca	Il relief (concave, convex, i	none): concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	R K	<b>Lat.:</b> 46 5	1.8606 <b>Lon</b>	g.: -93 38.7764	Datum: NAD 83
Soil Map Unit Name: 625				NWI classification:	N/A
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			I Circumstances" present?	Yes ● No ○
Are Vegetation , Soil	, or Hydrol			explain any answers in Re	marks.)
Summary of Findings ·	_ , ,	· ·	,	•	•
Hydrophytic Vegetation Presen	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	mum a mount		
Remarks: (Explain alternative	procedures here	or in a separate report.)			
Hydrology					
Wetland Hydrology Indicators	l			Secondary Indicators (minim	num of 2 required)
Primary Indicators (minimum		check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves (E	39)	Drainage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)		Dry Season Water Table	e (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (		Crayfish Burrows (C8)	
Sediment Deposits (B2)  Drift deposits (B3)		Oxidized Rhizospheres a		Saturation Visible on Ae	
Algal Mat or Crust (B4)		Presence of Reduced Iron Recent Iron Reduction in	, ,	Stunted or Stressed Plan  Geomorphic Position (D	, ,
Iron Deposits (B5)		Thin Muck Surface (C7)	n Tilleu Solis (Co)	Shallow Aquitard (D3)	2)
☐ Inundation Visible on Aerial In	nagery (B7)	Other (Explain in Remar	kel	Microtopographic Relief	(D4)
Sparsely Vegetated Concave S	Surface (B8)	other (Explain in Remai	no,	FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present? Ye	es O No 🗨	Depth (inches):	0		
Water Table Present? Ye	es • No O	Depth (inches):	10	(	<b>.</b> O
Saturation Present? (includes capillary fringe)	s • No O	Depth (inches):	Wetland Hyd	rology Present? Yes	● No ○
Describe Recorded Data (strea	m gauge, monito	oring well, aerial photos, pr	revious inspections), if avail	ilable:	
Remarks:					

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

VEGETATION - USE Scientific fiamles of pia	ants			Sampling Point: w-51n26w33-a1
(0) (1) (2)	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:4 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				0BL speci es 30 x 1 = 30
1 Spiraea alba	5	<b>✓</b>	FACW	FACW species 35 x 2 = 70
2	0			
3				FAC species $40$ x 3 = $120$
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6				Column Totals: 105 (A) 220 (B)
7				Prevalence Index = B/A = 2.095
		= Total Cove	,	
Herb Stratum (Plot size: 5 )		20.0		Hydrophytic Vegetation Indicators:
1. Chamerion angustifolium	40	<b>✓</b>	FAC	Rapid Test for Hydrophytic Vegetation
2 Carex lacustris			OBL	✓ Dominance Test is > 50%
3. Calamagrostis canadensis		<b>✓</b>	OBL	✓ Prevalence Index is ≤3.0 <sup>1</sup>
1.0	- 10		FACW	Morphological Adaptations <sup>1</sup> (Provide supporting
- 0 1 ""		<b>✓</b>	FACW	data in Remarks or on a separate sheet)
			TACVV	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				Definitions of Vegetation Strata:
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	0			Sapling/shrub - Woody plants less than 3 in. DBH and
(District 20	100 =	= Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				size, and woody plants less than 5.20 it tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	0 =	= 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-51n26w33-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth		Matrix		-		( Featu			_	
(inches)	Color (	moist)	%	Color (mo	st)	%	Type <sup>1</sup>	Loc2	Texture	Remarks
0-4	10YR	2/1	100						Clay Loam	
4-20	10YR	4/1	80	10YR	5/6 2	20	С	M	Sand	
									-	
									-	
		-								
			-							
			-							
1 Tumps C. Com		- Donlotio	n DM Doo	lugad Matrix CC	Covered	or Cooto	d Cond Cr		ation. DL Doro Lining M M	atrix
		=Depletio	in. Rivi=Red	luced Matrix, CS=	Covered (	or Coate	a Sana Gr	allis -Loca	ation: PL=Pore Lining. M=M	
Hydric Soil					D. 1		co) # == =		Indicators for Proble	ematic Hydric Soils: 3
Histosol (				Polyvalu MLRA 14		urtace (	S8) (LRR F	₹,	2 cm Muck (A10) (	(LRR K, L, MLRA 149B)
	ipedon (A2)				•	(S9) (L	.RR R, MLF	2A 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
Black His							) LRR K, L)		5 cm Mucky Peat o	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)				leyed Mat				Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)				l Matrix (F				Polyvalue Below St	urface (S8) (LRR K, L)
	Below Dark S		11)		ark Surfac				Thin Dark Surface	(S9) (LRR K, L)
	rk Surface (A				Dark Sur		7)		☐ Iron-Manganese M	lasses (F12) (LRR K, L, R)
	uck Mineral (S				epression:		,		Piedmont Floodpla	in Soils (F19) (MLRA 149B)
	eyed Matrix (	S4)		Redex B	cpi cssion	3 (1 0)			Mesic Spodic (TA6)	) (MLRA 144A, 145, 149B)
✓ Sandy Re									Red Parent Materia	al (F21)
	Matrix (S6)								Very Shallow Dark	Surface (TF12)
☐ Dark Surf	face (S7) (LR	R R, MLRA	\ 149B)						Other (Explain in R	Remarks)
<sup>3</sup> Indicators o	f hydrophytic	vegetatio	n and wetla	and hydrology mu	st be pres	ent, unl	ess disturb	ed or probl	ematic.	
Restrictive L										
Type:	ayer (ii obs	ci vea ji								
Depth (inc	shoe).								Hydric Soil Present?	Yes ● No ○
•	es)									
Remarks:										