## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 24-Aug-17
Applicant/Owner: Enbridge		State: Mi	Sampling Point: u-51n26w35-a9
Investigator(s): DPT/SMR		Section, Township, Range:	<b>s.</b> 36 <b>t.</b> 51N <b>R.</b> 26W
Landform (hillslope, terrace, etc.):	Nound	Local relief (concave, convex, r	
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.7382 <b>Lon</b>	<b>Datum:</b> NAD 83
Soil Map Unit Name: 292			NWI classification: N/A
Are climatic/hydrologic conditions on	the site typical for this time of y	year? Yes O No 💿	(If no, explain in Remarks.)
		•	Circumstances" present? Yes  No
			explain any answers in Remarks.)
- , - ,		,	is, transects, important features, etc
Hydrophytic Vegetation Present?	Yes ○ No ●		
Hydric Soil Present?	Yes ● No ○	Is the Sampled Area within a Wetland?	Yes ○ No •
Wetland Hydrology Present?	Yes O No •	***************************************	
Remarks: (Explain alternative proce	edures here or in a separate repo	ort.)	
Hydrology			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one	required; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Lea	aves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B	13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B1		Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide		Crayfish Burrows (C8)
Sediment Deposits (B2)		neres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)	Presence of Redu	, ,	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		ection in Tilled Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery	(B7) Thin Muck Surface  Other (Explain in	• •	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface	U Other (Explain in	Remarks)	FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No Depth (inches):	0	
Water Table Present? Yes	No   Depth (inches):	0	
Saturation Present? (includes capillary fringe)  Yes	No Depth (inches):	Wetland Hyd	rology Present? Yes O No •
Describe Recorded Data (stream gauge	ige, monitoring well, aerial phot	os, previous inspections), if avai	lable:
Remarks:			

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

VEGETATION - Use scientific fiames of pla	Sampling Point: u-51n26w35-a9			
(Olas : 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species:	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:0(A)
2				Total Number of Dominant
3	0			Species Across All Strata:
4	0			
5	0			Percent of dominant Species That Are OBL FACW or FAC: 0.0% (A/B)
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15			•	0BL speci es 0 x 1 = 0
1 _ Corylus cornuta	10	<b>✓</b>	FACU	FACW species x 2 =
2	0			
3				FAC speciles $0 \times 3 = 0$
4				FACU species110 x 4 =440
5				UPL speci es $0 \times 5 = 0$
6.		$\overline{\Box}$		Column Total s:110 (A)440 (B)
7		= Total Cove		Prevalence Index = B/A = 4.000
Herb Stratum (Plot size: 5	10=	= Total Cove	г	Hydrophytic Vegetation Indicators:
	100	<b>✓</b>	FACU	Rapid Test for Hydrophytic Vegetation
			FACU	☐ Dominance Test is > 50%
2				Prevalence Index is ≤3.0 ¹
3				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			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				
	-	Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30	100	- Total Cove	•	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.
3	0			Marchaeles Allerandonias and the Confident
4	0	$\overline{\Box}$		Woody vine - All woody vines greater than 3.28 ft in height.
4		- Total Cava		noight.
	=	= Total Cove	г	
				Hydronhydia
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate sh	eet.)			
(	· = <b>/</b>			

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

Soil Sampling Point: u-51n26w35-a9

Profile Descri	iption: (Des	scribe to	the depth	needed to d	ocument	t the indi	cator or c	onfirm the	absence of indicators.)		
Depth Matrix			Redox Features								
(inches)	Color (		%	Color (	moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR	2/2	100						Loam		
4-16	10YR	4/2	90	10YR	4/6	10	C		Silt Loam		
16-20	10YR	4/2	90	10YR	4/6	_10	С	M	Loamy Sand		
-											
		-			-						
		-									
<sup>1</sup> Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix, (	CS=Cover	ed or Coat	ed Sand Gr	ains <sup>2</sup> Loca	ntion: PL=Pore Lining. M=M	atrix	
Hydric Soil I	ndicators:								Indicators for Proble	ematic Hydric Soils: 3	
Histosol (A	<b>A</b> 1)					w Surface	(S8) (LRR	R,		(LRR K, L, MLRA 149B)	
Histic Epip	edon (A2)				A 149B)	(2-)				ox (A16) (LRR K, L, R)	
Black Histi	ic (A3)						(LRR R, ML			or Peat (S3) (LRR K, L, R)	
	Sulfide (A4)					Minerai (F Matrix (F2	1) LRR K, L	)	Dark Surface (S7) (LRR K, L, M)		
	Layers (A5)				iy Gieyed eted Matri		2)		Polyvalue Below S	urface (S8) (LRR K, L)	
	Below Dark S		(11)			rface (F6)			Thin Dark Surface	(S9) (LRR K, L)	
	k Surface (A1					Surface (F			☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
	ck Mineral (S yed Matrix (S				x Depress		,		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Red		34)								) (MLRA 144A, 145, 149B)	
Stripped N									Red Parent Materia		
	Dark Surface (S7) (LRR R, MLRA 149B)					<ul><li>✓ Very Shallow Dark Surface (TF12)</li><li>✓ Other (Explain in Remarks)</li></ul>					
<sup>3</sup> Indicators of				nd budsalasu	must be a	aracant	alooo diotuu	had ar proble		Remarks)	
			ni anu wena	na nyarology	must be p	bresent, ui	iless distui	bed of proble	ematic.		
Restrictive La	ayer (if obs	erved):									
Type:									Hydric Soil Present?	Yes ● No ○	
Depth (inch	ies):								-		
Remarks:											