WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	Sampling Date: 07-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: u-51n23w24-d2
Investigator(s): PJK	Section, Township, Range: S. 24	4 T. 51N R. 23W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, none):	
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.928 Long.: -9	93 11.4105 Datum: NAD 83
Soil Map Unit Name: 292		NWI classification: N/A
Are climatic/hydrologic conditions on the site typic	al for this time of year? Yes No (If no	o, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	(ımstances" present? Yes ● No ○
Are Vegetation , Soil , or Hydrology		in any answers in Remarks.)
_ , _ ,	nap showing sampling point locations, to	•
Hydrophytic Vegetation Present? Yes No		· ·
Hydric Soil Present? Yes O No	Is the Sampled Area within a Wetland?	s O No 💿
	within a wetiand?	
Remarks: (Explain alternative procedures here or	in a senarate report.)	
Hydrology Wetland Hydrology Indicators:	Sero	ondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; che		Surface Soil Cracks (B6)
Surface Water (A1)		Drainage Patterns (B10)
High Water Table (A2)	` '	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)		Crayfish Burrows (C8)
Sediment Deposits (B2)		Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)		Stunted or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)☐		Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		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): 0 Wetland Hydrology	y Present? Yes ○ No •
	g well, aerial photos, previous inspections), if available:	
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pic	Sampling Point: u-51n23w24-d2			
(0) (1) (20)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2	0			Total Number of Deminent
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4	0			
5				Percent of dominant Species
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 species 0 x 1 = 0
1 Corylus cornuta		✓	FACU	FACW species x 2 =10
2	0			FAC species x 3 =
3	0			<u> </u>
4				FACU speciles $\frac{110}{2}$ x 4 = $\frac{440}{2}$
5	0			UPL speci es $\frac{0}{x}$ $x = \frac{0}{x}$
6.				Column Totals: <u>115</u> (A) <u>450</u> (B)
7				Prevalence Index = B/A =3.913_
		= Total Cove		
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators:
1. Pteridium aquilinum	90	✓	FACU	Rapid Test for Hydrophytic Vegetation
2. Solidago gigantea	5		FACW	Dominance Test is > 50%
3. Tanacetum vulgare			FACU	☐ 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				Problematic Hydrophytic Vegetation (Explain)
7				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				_
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2	-			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	105=	= Total Cove	r	greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
				size, and woody plants less than 3.28 ft tall.
2				
3				Woody vine - All woody vines greater than 3.28 ft in height.
4				neignt.
	=	= Total Cove	r	
				Hydrophytic
				Vegetation
				Present? Yes V No V
Remarks: (Include photo numbers here or on a separate sl	neet.)			

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

Soil Sampling Point: u-51n23w24-d2

	ription: (Des		the depth				firm the	absence of indicators.)	
Depth (inches)	Caland	Matrix	0/		dox Featur		1 2	Tarahawa	Barrantra
	Color (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR	2/1	100					Silt Loam	
4-6	10YR	3/2	100					Silt Loam	
6-20	10YR	4/3	100					Fine Sandy Loam	
								-	
								-	
			-		-				
				-					
¹ Type: C=Con	centration. D	=Depletio	n. RM=Red	uced Matrix, CS=Covere	ed or Coated	Sand Gra	ns ² Loca	ntion: PL=Pore Lining. M=M	atrix
Hydric Soil	Indicators:							Indicators for Broble	ematic Hydric Soils: 3
Histosol (Polyvalue Belov	v Surface (S	88) (LRR R.			
	pedon (A2)			MLRA 149B)	(-, (,			(LRR K, L, MLRA 149B)
Black His				Thin Dark Surfa	ace (S9) (LF	RR R, MLRA	A 149B)		x (A16) (LRR K, L, R)
	n Sulfide (A4)			Loamy Mucky N	Mineral (F1)	LRR K, L)			or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gleyed	Matrix (F2)			Dark Surface (S7)	
	Below Dark S	Surface (A	.11)	Depleted Matrix	(F3)				urface (S8) (LRR K, L)
	rk Surface (A1		•	Redox Dark Su	rface (F6)			Thin Dark Surface	
	uck Mineral (S			Depleted Dark	Surface (F7))			asses (F12) (LRR K, L, R)
	eyed Matrix (S			Redox Depress	ions (F8)				in Soils (F19) (MLRA 149B)
Sandy Re		·) (MLRA 144A, 145, 149B)
	Matrix (S6)							Red Parent Materia Very Shallow Dark	
	face (S7) (LRF	R R, MLRA	A 149B)					Other (Explain in R	
									erriarks)
			n and wella	nd hydrology must be p	resent, unit	ess disturbe	ed of proble	етанс.	
Restrictive L	ayer (if obs	erved):							
Type:								Hydric Soil Present?	Yes ○ No •
Depth (inc	:hes):							nyuric Soil Present?	Yes Uno U
Remarks:									