WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County	: Aitkin		Sampli	ng Date: 02-Sep-17
Applicant/Owner: Enbridge				State: MN	N S	Sampling Point:	u-51n23w28-b1
Investigator(s): SMR			Section,	Township, Range:	s. 28	T. 51N	R. 23W
Landform (hillslope, terrace, etc.):	Mound			(concave, convex, r		convex	Slope: 12.2 % / 7.0
Subregion (LRR or MLRA): LRR K			46 52.3179		_ 93∶ -93		Datum: NAD 83
Soil Map Unit Name: 204C			40 32.3177			WI classification:	
				/es ● No ○	_		
Are climatic/hydrologic conditions or	-					explain in Remark	
Are Vegetation, Soil	, or Hydrolo		ly disturbed?	' Are "Normal	Circums	stances" present?	res 🥯 INO 🖰
Are Vegetation, Soil	, or Hydrolo	·	roblematic?	•	-	any answers in Re	•
Summary of Findings - Att			ampling	point location	ıs, tra	nsects, impo	rtant features, etc
Hydrophytic Vegetation Present?	Yes 🔾	No 💿					
Hydric Soil Present?	Yes 🔾	No •		he Sampled Area hin a Wetland?	Yes (⊃ No ⊙	
Wetland Hydrology Present?	Yes 🔾	No 💿					
Remarks: (Explain alternative proc	edures here	or in a separate repor	rt.)				
Hydrology							
Wetland Hydrology Indicators:		·			Seconda	ary Indicators (minin	num of 2 required)
Primary Indicators (minimum of on	e required;	check all that apply)			Sur	face Soil Cracks (B6)
Surface Water (A1)		Water-Stained Leave	ives (B9)		Dra	iinage Patterns (B10)
☐ High Water Table (A2)		Aquatic Fauna (B13				ss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15				Season Water Table	e (C2)
Water Marks (B1)		☐ Hydrogen Sulfide C				yfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosphe	· ·	ng Roots (C3)		uration Visible on A	* *
Drift deposits (B3)		Presence of Reduc	` ,			nted or Stressed Pla	• •
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		Recent Iron Reduc		oils (C6)		omorphic Position (D	02)
	, (D7)	☐ Thin Muck Surface				allow Aquitard (D3)	F (D 4)
Inundation Visible on Aerial ImagerySparsely Vegetated Concave Surface		Other (Explain in R	Remarks)			rotopographic Relief	(D4)
Sparsery vegetated concave surrace	: (DO)				L FAC	C-neutral Test (D5)	
Field Observations:							
Surface Water Present? Yes	No 💿	Depth (inches):	0	_			
Water Table Present? Yes	No 💿	Depth (inches):	0	_			O O
Saturation Present? Yes	No 💿	Depth (inches):	0	Wetland Hydi	rology Pı	resent? Yes	○ No ●
Describe Recorded Data (stream ga	uge, monito	oring well, aerial photo	os, previous i	nspections), if avai	lable:		
, G	0						
Remarks:							

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: u-51n23w28-b1			
(0)	Absolute	Dominant Species 2	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 Dominant
3	0			Species Across All Strata: 2 (B)
4	0			
5				Percent of dominant Species That Are ORL FACW or FAC: 0.0% (A/B)
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				0BL speci es 0 x 1 = 0
1	0			FACW species 0 x 2 = 0
2	0			FAC speciles
3				1 · · ·
4				1 .
5	0			UPL speci es $\frac{0}{x}$ $5 = \frac{0}{x}$
6.				Column Totals: 100 (A) 400 (B)
7				Prevalence Index = B/A = 4.000
		Total Cover		
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
1. Pteridium aquilinum	70	✓	FACU	
2. Poa pratensis	30	✓	FACU	Dominance Test is > 50%
3				Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				
6				Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7				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	100 =	Total Cover		greater than 3.28 ft (1m) tall
	0			Harb All barbassaus (non woody) plants, regardless of
1				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
4				height.
	=	Total Cover		
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate s	heet.)			
	•			

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

Soil Sampling Point: u-51n23w28-b1

(inches)		trix	Redox Features	_	
	Color (mois	st) %	Color (moist) % Type 1 Loc2	Texture	Remarks
0-3	10YR 2	2/1 100		Silt Loam	
3-20	10YR 4	1/4 100		Silt Loam	
				-	
				-	
Type: C-Con	centration D=De	nletion RM-Red	uced Matrix, CS=Covered or Coated Sand Grains ² Loca	ation: PL-Pore Lining M-Ma	triv
Hydric Soil 1		piction: RWI–Red	acca matrix, co-covered of coated saint Grains		
Histosol (Polyvalue Below Surface (S8) (LRR R,		matic Hydric Soils: 3
	pedon (A2)		MLRA 149B)		LRR K, L, MLRA 149B)
Black Hist			☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)		(A16) (LRR K, L, R)
	Sulfide (A4)		Loamy Mucky Mineral (F1) LRR K, L)		Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed Matrix (F2)	Dark Surface (S7)	
	Below Dark Surfa	ce (A11)	Depleted Matrix (F3)		rface (S8) (LRR K, L)
	k Surface (A12)	cc (ATT)	Redox Dark Surface (F6)	Thin Dark Surface	
	ick Mineral (S1)		Depleted Dark Surface (F7)		asses (F12) (LRR K, L, R)
	eyed Matrix (S4)		Redox Depressions (F8)		n Soils (F19) (MLRA 149B)
Sandy Re					(MLRA 144A, 145, 149B)
	Matrix (S6)			Red Parent Materia	, ,
	ace (S7) (LRR R,	MI DA 140B)		☐ Very Shallow Dark	
				Other (Explain in R	emarks)
³ Indicators of	f hydrophytic vege	etation and wetla	nd hydrology must be present, unless disturbed or probl	lematic.	
Restrictive L	ayer (if observe	ed):			
Type:					
	hes):			Hydric Soil Present?	Yes O No 💿
Depth (inc			_		
Depth (inc					
Depth (inc					