WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	c	City/County: Aitkin	Sampling Date: 29-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n25w36-a4
Investigator(s): DPT		Section, Township, Range:	S. 36 T. 51N R. 25W
Landform (hillslope, terrace, etc.): Mou	nd L	ocal relief (concave, convex, n	
Subregion (LRR or MLRA): LRR K	Lat.: 4	6 51.5217 Long	
Soil Map Unit Name: 546			NWI classification: PFO6/SSB
Are climatic/hydrologic conditions on the	site typical for this time of yea	ar? Yes O No •	(If no, explain in Remarks.)
	Hydrology \Box significantly		Circumstances" present? Yes No
	Hydrology naturally pro		en canno anno an procession
, _ ,		` '	explain any answers in Remarks.) s, transects, important features, etc
	s No •	point location	s, transcoo, important ratta es, etc
/· · · · / · · · · · · · · · · · · · ·	s • No O	Is the Sampled Area	Yes ○ No •
V-	s O No O	within a Wetland?	res Uno S
Wetland Hydrology Present? Remarks: (Explain alternative procedur		`	
Hudrology			
Hydrology			
Wetland Hydrology Indicators:	guired, check all that apply)		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one red Surface Water (A1)	Water-Stained Leave	ns (PO)	Surface Soil Cracks (B6) Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	, ,	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table (C2)
☐ Water Marks (B1)	Hydrogen Sulfide Od	dor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)		es along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced	d Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction	on in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (0	•	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	U Other (Explain in Rei	marks)	Microtopographic Relief (D4) FAC-neutral Test (D5)
Sparsely vegetated concave surface (bo)	,		FAC-fieutral fest (D5)
Field Observations: Surface Water Present? Yes	No ● Depth (inches):	0	
	. (2)		
	Depth (inches): _	0 Wetland Hydr	ology Present? Yes O No 💿
Saturation Present? (includes capillary fringe) Yes N	Depth (inches):	0	
Describe Recorded Data (stream gauge,	monitoring well, aerial photos,	, previous inspections), if avail	able:
Remarks:			

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pic	Sampling Point: u-51n25w36-a4						
(0) 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 Dominant			
3	0			Species Across All Strata: 3 (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 speci es 0 x 1 = 0			
1	0			FACW species 10 x 2 = 20			
2	0						
3				<u> </u>			
4				FACU species 90 x 4 = 360			
5				UPL speci es $0 \times 5 = 0$			
6				Column Total s: 100 (A) 380 (B)			
7				Prevalence Index = B/A = 3.800			
		= Total Cove					
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:			
1. Cirsium arvense	30	✓	FACU	Rapid Test for Hydrophytic Vegetation			
2 Phalaris arundinacea			FACW	Dominance Test is > 50%			
3. Solidago canadensis		✓	FACU	Prevalence Index is ≤3.0 ¹			
4. Pteridium aquilinum		✓	FACU	Morphological Adaptations ¹ (Provide supporting			
5			-7100	data in Remarks or on a separate sheet)			
				Problematic Hydrophytic Vegetation ¹ (Explain)			
6				¹ Indicators of hydric soil and wetland hydrology must			
7				be present, unless disturbed or problematic.			
8				Definitions of Vegetation Strata:			
9				Deminions 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				Sapling/shrub - Woody plants less than 3 in. DBH and			
(Not size, 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	0			height.			
		= Total Cove	r				
				Hydrophytic Vegetation			
				Present? Yes No No			
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-51n25w36-a4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth (inches)			Redox Features									
(inches)	Color (%	Color (moist)	%_	Type ¹	Loc ²	Texture	Rer	marks	
0-4	10YR	2/1	100						Loam			
4-20	10YR	4/2	90	10YR	4/6	10	C		Silt Loam	_		
									-			
		-							-			
				-								
1			D:: -		00.0							
• •		=Depletio	n. RM=Rec	luced Matrix,	US=Cover	ed or Coat	ted Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=			
Hydric Soil I					,		(OO)	-	Indicators for Prob	lematic Hydr	ic Soils: 3	
Histosol (,				value Belo A 149B)	w Surface	(S8) (LRR	К,	2 cm Muck (A10) (LRR K, L, ML	RA 149B)	
	pedon (A2)				•	ace (S9) ((LRR R, ML	RA 149B)	Coast Prairie Rec	dox (A16) (LRR	K, L, R)	
Black Hist							1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4) Layers (A5)					Matrix (F2		,	Dark Surface (S7) (LRR K, L, M)			
	Below Dark S	Surface (A	11)		eted Matri		•		Polyvalue Below			
	k Surface (A		11)			ırface (F6)			Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (S			☐ Dep	eted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
	eyed Matrix (Rede	ox Depress	sions (F8)			☐ Piedmont Floodp			
Sandy Red		o .,							Mesic Spodic (TA		А, 145, 149В)	
Stripped N									Red Parent Mate		0)	
	ace (S7) (LRI	R R, MLRA	149B)						Very Shallow Da		2)	
							-11:-4	hl	Other (Explain in	i Remarks)		
³ Indicators of			n and wella	and nydrology	must be	present, ur	niess distui	bed of proble	еттанс.			
Restrictive La	ayer (if obs	erved):										
Type:									Hydric Soil Present?	Yes	No O	
Depth (inch	nes):								,	163 🗢	140 😊	
Remarks:												
I												