WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin Sampling Date: 22-Aug-17
Applicant/Owner: Enbridge	State: MN Sampling Point: w-51n26w33-b2
Investigator(s): SMR/RWS	Section, Township, Range: S. 33 T. 51N R. 26W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none): concave Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K Lat.:	46 51.8602 Long.: -93 38.3729 Datum: NAD 83
Soil Map Unit Name: 625	NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for this time of	year? Yes No (If no, explain in Remarks.)
	tly disturbed? Are "Normal Circumstances" present? Yes No
	problematic? (If needed, explain any answers in Remarks.)
	sampling point locations, 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 ● No ○	Within a Wedding.
Remarks: (Explain alternative procedures here or in a separate rep	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 Le	
High Water Table (A2) Aquatic Fauna (B	
Saturation (A3)	
Water Marks (B1) Hydrogen Sulfide	
	neres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
	ced Iron (C4) ☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2)
Iron Deposits (B5)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in	
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):	
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	Wetland Hydrology Present? Yes ● No ○
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), if available:
Remarks:	

VEGETATION - Use scientific names of plants

(5)	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: (A)		
2	0			T. LIN . L CD . L L		
3				Total Number of Dominant Species Across All Strata: 2 (B)		
4				(-)		
5				Percent of dominant Species		
6				That Are OBL, FACW, or FAC: 100.0% (A/B)		
7				Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove	r	Total % Cover of: Multiply by:		
1. Spiraea alba	10	✓	FACW	0BL speci es <u>90</u> x 1 = <u>90</u>		
2				FACW species <u>20</u> x 2 = <u>40</u>		
3				FAC speci es x 3 = 0		
				FACU species x 4 =0		
4				UPL speci es $0 \times 5 = 0$		
5				Column Totals:110 (A)130 (B)		
6				(1)		
7	0			Prevalence Index = B/A =1.182		
Herb Stratum (Plot size: 5)	10=	= Total Cove	r	Hydrophytic Vegetation Indicators:		
		_		✓ Rapid Test for Hydrophytic Vegetation		
1. Calamagrostis canadensis	90	✓	OBL	✓ Dominance Test is > 50%		
2. Phragmites australis	10		FACW	✓ Prevalence Index is ≤3.0 ¹		
3	0					
4	0			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation ¹ (Explain)		
6						
7				¹ Indicators of hydric soil and wetland hydrology must		
				be present, unless disturbed or problematic.		
8				Definitions of Vegetation Strata:		
9				_		
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
11				at breast height (DBH), regardless of height.		
12				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		
	0			Llowh All hawbassaya (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				0.25, and 1.653, piame 1865 than 0.25 it tain		
3	0			Woody vine - All woody vines greater than 3.28 ft in		
4	0			height.		
	0 =	= Total Cove	r			
				Hydrophytic		
				Vegetation Present? Yes No		
Boundary (To de de about a combon de a	\					
Remarks: (Include photo numbers here or on a separate she	et.)					

Sampling Point: w-51n26w33-b2

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

Soil Sampling Point: w-51n26w33-b2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth Matrix Redox Fe					dox Featu	ıres						
(inches)	Color (moist)	%	Color (ı		%	Type ¹	Loc2	Texture	Remarks		
0-3	10YR	2/1	100						Muck			
3-12	10YR	3/1	95	10YR	4/6	5	С С	M	Sandy Clay Loam			
-				-								
12-20	10YR	4/2	90	10YR	3/6	10	C		Sandy Clay Loam			
			-									
• •		=Depletio	n. RM=Rec	uced Matrix, C	S=Cover	ed or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Ma	atrix		
Hydric Soil 1									Indicators for Proble	ematic Hydric Soils: ³		
Histosol (•					w Surface	(S8) (LRR I	₹,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Histic Epi	pedon (A2)				(149B)	(00) (24 4 40D)		x (A16) (LRR K, L, R)		
Black Hist	tic (A3)				☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)					or Peat (S3) (LRR K, L, R)		
Hydrogen	Sulfide (A4)				Loamy Mucky Mineral (F1) LRR K, L)				Dark Surface (S7)			
Stratified	Layers (A5)			Loamy Gleyed Matrix (F2)					Polyvalue Below Surface (S8) (LRR K, L)			
Depleted	Below Dark S	Surface (A	11)	Depleted Matrix (F3)					☐ Thin Dark Surface (S9) (LRR K, L)			
Thick Dar	☐ Thick Dark Surface (A12)						☐ Iron-Manganese Masses (F12) (LRR K, L, R)					
Sandy Mu	Sandy Muck Mineral (S1) Depleted Dark Surface (F7)							Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy Gle	Sandy Gleyed Matrix (S4) Redox Depressions (F8)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)					
Sandy Re	Sandy Redox (S5)						Red Parent Material (F21)					
Stripped I	Stripped Matrix (S6)					Very Shallow Dark Surface (TF12)						
Dark Surface (S7) (LRR R, MLRA 149B)					Other (Explain in Remarks)							
³ Indicators of	f hydronhytic	venetatio	n and wetla	and hydrology	must he	nresent un	nless distur	ned or probl		·-··-,		
			ir and well	ina nyarology	must be	present, un	iicss distair	oca or probi	ematic.			
Restrictive L	ayer (if obs	erved):										
Type:									Hydric Soil Present?	Yes ● No ○		
Depth (inc	hes):								riyuric 30ii Presenti	res © NO C		
Remarks:												