WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	Aitkin	Sampling Date: 23-Aug-17		
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n26w34-a2	
Investigator(s): PJK		Section, T	ownship, Range: S. 34	τ. 51Ν	R. 26W	
Landform (hillslope, terrace, etc.):	Shoulder slope	Local relief (c	oncave, convex, none):	convex	Slope: <u>36.3</u> % / 20.0	
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.8204	Long.: -9	93 36.8416	Datum: NAD 83	
Soil Map Unit Name: 1150		-		NWI classification:	N/A	
Are Vegetation , Soil Are Vegetation , Soil Summary of Findings - At Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	, or Hydrology 🗌 naturally	Is th	(If needed, explain the second	imstances" present? in any answers in Re ransects, impo s O No O	emarks.)	
Remarks: (Explain alternative prod WETS analysis shows precipitation		2	ties. Road shoulder.			

Hydrology

Wetland Hydrology Indicat	ors:			Secondary Indicators (minimum of 2 required)		
Primary Indicators (minim	um of one	required;	check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)			Water-Stained Leaves (B9)	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 Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)			 Oxidized Rhizospheres along Living Roots (C3) 	Saturation Visible on Aerial Imagery (C9)		
Drift deposits (B3)			Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)			Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)			Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aeri	al Imagery	(B7)		Microtopographic Relief (D4)		
Sparsely Vegetated Conca	0 5	• •	Uther (Explain in Remarks)	FAC-neutral Test (D5)		
		()				
Field Observations:						
Surface Water Present?	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches): 0			
Water Table Present?	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches):0			
Saturation Present? (includes capillary fringe)	$_{\rm Yes} \bigcirc$	No 🖲	Wetland Depth (inches): 0	Hydrology Present? Yes 🔾 No 🖲		
Describe Recorded Data (s	tream gau	ge, monito	pring well, aerial photos, previous inspections), if	available:		
Remarks:						

VEGETATION - Use scientific names of plants

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	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Dereent of dominant Species
5				Percent of dominant Species That Are OBL, FACW, or FAC:0.0% (A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		Total Cover		Total % Cover of: Multiply by:
1	0			OBL species x 1 =
2				FACW species $0 \times 2 = 0$
3				FAC species $0 \times 3 = 0$
4				FACU species $100 \times 4 = 400$
5	-			UPL species x 5 =
6				Column Totals: <u>100</u> (A) <u>400</u> (B)
7				Prevalence Index = $B/A = 4.000$
	0 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)				Rapid Test for Hydrophytic Vegetation
1. Solidago canadensis	40	\checkmark	FACU	Dominance Test is > 50%
2. Poa pratensis	40	✓	FACU	Prevalence Index is ≤3.0 ¹
3. Melilotus alba	10		FACU	Morphological Adaptations ¹ (Provide supporting
4. Trifolium pratense	5		FACU	data in Remarks or on a separate sheet)
5. Plantago major			FACU	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				Demitions of Vegetation Strata.
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 Cover		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			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cover		
				Hydrophytic Vegetation
				Present? Yes No 🔍
Remarks: (Include photo numbers here or on a separate she	et.)			

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

US Army Corps of Engineers

Depth	Matrix			dox Featu			absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	<u>w</u>	Type ¹	Loc ²	Texture	Remarks
				- <u>-</u>			. <u> </u>	
		· ·						
							·	
		· ·			- <u>-</u>			
		· ·			-			
Type: C=Con	centration. D=Depletion	n. RM=Redu	ced Matrix, CS=Cover	ed or Coate	d Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=Ma	trix
Hydric Soil 1	Indicators							
Histosol (Polyvalue Belov	N Surface	ת החו) (oo)		Indicators for Proble	
			MLRA 149B)	w Suitace (30) (LKK K	,	2 cm Muck (A10) (L	RR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surfa	I) (02) and		A 1/0R)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black Hist						A 1490)	5 cm Mucky Peat or	Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Mucky I				Dark Surface (S7) (
Stratified	Layers (A5)		Loamy Gleyed					face (S8) (LRR K, L)
Depleted	Below Dark Surface (A1	1)	Depleted Matri	x (F3)				
	k Surface (A12)		Redox Dark Su	rface (F6)			Thin Dark Surface (
	uck Mineral (S1)		Depleted Dark	Surface (F	7)			sses (F12) (LRR K, L, R)
			Redox Depress	ions (F8)			Piedmont Floodplair	n Soils (F19) (MLRA 149B)
-	eyed Matrix (S4)						Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re							Red Parent Material	(F21)
Stripped I	Matrix (S6)						Very Shallow Dark S	Surface (TF12)
Dark Surf	ace (S7) (LRR R, MLRA	149B)					Other (Explain in Re	
³ Indicators of	f hydrophytic vegetation	and wetlan	d bydrology must be r	prosont un	lass disturb	ed or proble		
			a nyarology mast be p	nesent, un				
Restrictive L	ayer (if observed):							
Туре:								
Depth (inc	hes):						Hydric Soil Present?	Yes 🔾 🛛 No 🖲
Remarks:								
o digging,	potential buried utilit	ies. Soils a	ssumed non-hydric	based on	vegetatio	on and hyd	Irology.	