WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/	County: Aitkin	Samplin	g Date: 24-Aug-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n26w36-a2
Investigator(s): DPT/SMR		Se	ection, Township, Range:	s. 36 t. 51N	R. 26W
Landform (hillslope, terrace, etc.):	Mound		relief (concave, convex, r		Slope: 5.2 % / 3.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46 51	.7613 Lon e	-93 34.6065	Datum: NAD 83
Soil Map Unit Name: 628				NWI classification:	N/A
Are climatic/hydrologic conditions on	the site tyr	oical for this time of year?	Yes ○ No ●	— (If no, explain in Remarks	.)
	, or Hydrolo	,		Circumstances" present?	Yes ● No ○
	, or Hydrolo			explain any answers in Ren	narks.)
Summary of Findings - Att			,	-	•
Hydrophytic Vegetation Present?	Yes O	No •			
Hydric Soil Present?	Yes	No O	Is the Sampled Area within a Wetland?	Yes ○ No ●	
Wetland Hydrology Present?	$_{Yes} \cap$	No •	Within a Wetana.		
Remarks: (Explain alternative proce		or in a senarate report.)			
Hydrology					
Wetland Hydrology Indicators:				Secondary Indicators (minim	um of 2 required)
Primary Indicators (minimum of one	e required;	check all that apply)		Surface Soil Cracks (B6)	uni c. 2 . oga 12,
Surface Water (A1)		Water-Stained Leaves (B9	9)	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 (C		Crayfish Burrows (C8)	
Sediment Deposits (B2) Drift deposits (B3)		Oxidized Rhizospheres ald		Saturation Visible on Aer	
Algal Mat or Crust (B4)		Presence of Reduced Iron Recent Iron Reduction in	• •	Stunted or Stressed Plan Geomorphic Position (D2	` ,
Iron Deposits (B5)		Thin Muck Surface (C7)	Tilled Soils (Co)	Shallow Aquitard (D3)	.)
Inundation Visible on Aerial Imagery	(B7)	Other (Explain in Remark	c)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface	: (B8)	Other (Explain in Remark	3)	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 Hyd	rology Present? Yes) No ●
Describe Recorded Data (stream gau	uge, monito	ring well, aerial photos, pre	evious inspections), if avai	lable:	
Remarks:					

VEGETATION - Use scientific names of plants

VEGETATION - Ose scientific fiames of pr	TATION - Use scientific flames of plants				
Tree Stratum (Plot size: 30)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:	
	% Cover		Status	Number of Dominant Species	
1. Populus tremuloides		✓	FACU	That are OBL, FACW, or FAC: (A)	
2	0			Total Number of Dominant	
3	0			Species Across All Strata: 5 (B)	
4	0				
5				Percent of dominant Species	
6				That Are OBL, FACW, or FAC: 0.0% (A/B)	
7		Ħ		Prevalence Index worksheet:	
7-		= Total Cove		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15)		- Total Cove		0BL species 0 x 1 = 0	
1. Corylus cornuta	70	✓	FACU		
2. Populus tremuloides	10		FACU	FACW species 10 x 2 = 20	
3	0		-	FAC species <u>5</u> x 3 = <u>15</u>	
4				FACU speci es <u>220</u> x 4 = <u>880</u>	
5				UPL species $\frac{20}{}$ x 5 = $\frac{100}{}$	
6				Column Totals: <u>255</u> (A) <u>1015</u> (B)	
				Dravalance Index D/A 2.000	
7		- Total Carra		Prevalence Index = B/A = 3.980	
Herb Stratum (Plot size: 5	80 =	= Total Cove	•	Hydrophytic Vegetation Indicators:	
A Analla modia colla	20	✓	FACU	Rapid Test for Hydrophytic Vegetation	
		✓	FACU	Dominance Test is > 50%	
				☐ Prevalence Index is \leq 3.0 ¹	
3. Cornus canadensis			FAC	Morphological Adaptations ¹ (Provide supporting	
4. Rubus hispidus		✓	FACW	data in Remarks or on a separate sheet)	
5Eurybla macrophylla			UPL	Problematic Hydrophytic Vegetation ¹ (Explain)	
6				1	
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
8	0				
9	0			Definitions of Vegetation Strata:	
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter	
1				at breast height (DBH), regardless of height.	
2					
	_	= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall	
Woody Vine Stratum (Plot size: 30				greater than 3.20 it (1111) 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.	
To	0 =	= Total Cove		, and the second	
			-		
				Hydrophytic	
				Vegetation	
				Present? Yes V No V	
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-51n26w36-a2

Profile Descri	iption: (Des	scribe to	the depth	needed to	locumen	t the indi	cator or c	onfirm the	absence of indicators.)	
Depth (inches)	Matrix Color (moist)%		Redox Features Color (moist) % Type ¹ Loc							
				Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-5	10YR	2/1	100						Sandy Loam	
5-13	10YR	4/2	95	10YR	4/6	_ 5	_ <u>C</u>		Silt Loam	
13-20	10YR	4/2	80	10YR	4/6	20	C	M	Loamy Sand	
							_			
			-	-		-	-	-		
-				-						
-				-		-				
			-	-	-					
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Rec	luced Matrix,	CS=Cover	ed or Coat	ted Sand G	ains ² Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil I									Indicators for Proble	ematic Hydric Soils: 3
Histosol (A	•				value Belo A 149B)	w Surface	(S8) (LRR	R,		(LRR K, L, MLRA 149B)
Histic Epip					•	ace (S9)	(LRR R, ML	RA 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
Black Histi							1) LRR K, L		5 cm Mucky Peat o	or Peat (S3) (LRR K, L, R)
	Sulfide (A4) Layers (A5)					Matrix (F2		,	Dark Surface (S7)	
	Below Dark S	Surface (A	.11)	✓ Depl	eted Matri	ix (F3)			_	urface (S8) (LRR K, L)
	k Surface (A1		,	Redo	ox Dark Su	ırface (F6)			☐ Thin Dark Surface	
	ck Mineral (S			Depl	eted Dark	Surface (F	7)			lasses (F12) (LRR K, L, R)
	yed Matrix (S			Redo	ox Depress	sions (F8)				in Soils (F19) (MLRA 149B)) (MLRA 144A, 145, 149B)
Sandy Rec	dox (S5)								Red Parent Materia	
Stripped N									Very Shallow Dark	
Dark Surfa	ace (S7) (LRF	R R, MLRA	A 149B)						Other (Explain in F	
³ Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	must be	present, ui	nless distur	bed or proble	ematic.	
Restrictive La	ayer (if obs	erved):								
Type:										
Depth (inch	nes):								Hydric Soil Present?	Yes No
Remarks:										