## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 31	-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51r	124w25-a1
Investigator(s): SMR		Section, Township, Range:	<b>s.</b> 25 <b>t.</b> 51N	<b>R.</b> 24W
Landform (hillslope, terrace, etc.): Hill	side	Local relief (concave, convex, r		8.7 <b>% /</b> 5.0 °
Subregion (LRR or MLRA): LRR K	Lat.: ∠	46 52.3881 <b>Long</b>		ım: NAD 83
Soil Map Unit Name: 870C			NWI classification: N/A	-
Are climatic/hydrologic conditions on th	e site tunical for this time of ve	ear? Yes O No •	(If no, explain in Remarks.)	
			Circumstances" present? Yes	No 🔾
	r Hydrology 🔲 naturally pr		circumstances present.	
Summary of Findings - Attac		,	explain any answers in Remarks.) S. transects. important fe	atures, etc
	res No •	umpinig point rocation	s, transcoo, important is	<u> </u>
7 7	res O No •	Is the Sampled Area	Yes ○ No •	
,,	es O No •	within a Wetland?	Yes U NO U	
Wetland Hydrology Present?  Remarks: (Explain alternative procedum)				
U-dualogy.				
Hydrology Wetland Hydrology Indicators				
Wetland Hydrology Indicators:	aguired, about all that apply)		Secondary Indicators (minimum of 2 reg	uired)
Primary Indicators (minimum of one real Surface Water (A1)	Water-Stained Leav	ros (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 O		Crayfish Burrows (C8)	
Sediment Deposits (B2)		res along Living Roots (C3)	Saturation Visible on Aerial Imagery	(C9)
Drift deposits (B3)	Presence of Reduce	ed Iron (C4)	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduct	ion in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (	• /	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (B	Utilei (Explain in ite	emarks)	Microtopographic Relief (D4)	
Sparsely vegetated Concave Surface (B	8)		FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes	No Depth (inches):			
		0		
	No Depth (inches):	0 Wetland Hyde	ology Present? Yes O No 🖲	)
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):	0	ology Present: 103 - 103 -	,
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos	s, previous inspections), if avai	able:	
Remarks:				

## **VEGETATION - Use scientific names of plants**

VEGETATION - Ose scientific fiames of plants				Sampling Point: u-51n24w25-a1	
(2)	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species	
1 Acer saccharum	30	✓	FACU	That are OBL, FACW, or FAC:0(A)	
2. Populus tremuloides	40	✓	FACU	T. I. M. J. C.	
3	0			Total Number of Dominant Species Across All Strata: 4 (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	-	Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15		- Total Cove	'	0BL species 0 x 1 = 0	
1	0			FACW species 0 x 2 = 0	
2					
3				FAC speciles 0 x 3 = 0	
4			-	FACU speciles <u>110</u> x 4 = <u>440</u>	
5				UPL speci es $\frac{60}{}$ x 5 = $\frac{300}{}$	
6				Column Totals: <u>170</u> (A) <u>740</u> (B)	
7				Prevalence Index = B/A = 4.353	
		= Total Cove	r		
Herb Stratum (Plot size: 5 )				Hydrophytic Vegetation Indicators:	
1 Carex pensylvanica	60	<b>✓</b>	UPL	Rapid Test for Hydrophytic Vegetation	
2. Aralia nudicaulis		<u></u>	FACU	Dominance Test is > 50%	
3				Prevalence Index is ≤3.0 ¹	
4				Morphological Adaptations <sup>1</sup> (Provide supporting	
5				data in Remarks or on a separate sheet)	
6				☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
7				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 at breast height (DBH), regardless of height.	
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	r	greater than 3.28 ft (1m) tall	
	0			Herb - All herbaceous (non-woody) plants, regardless of	
1	0			size, and woody plants less than 3.28 ft tall.	
	0		-		
3	0			Woody vine - All woody vines greater than 3.28 ft in height.	
4		- Total Cava		neight.	
	=	= Total Cove	Ī		
				Hydrophytic	
				Vegetation	
				Present? Yes V No V	
Remarks: (Include photo numbers here or on a separate she	eet.)				

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-51n24w25-a1

Depth (inches) Color (moist) % Color (moist) % Type 1 Loc2 Texture Remark  0-4 10YR 2/3 100 Silt Loam  4-20 10YR 4/4 100 Silt Loam  Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2Location: PL=Pore Lining. M=Matrix  Hydric Soil Indicators:    Histosol (A1)   Polyvalue Below Surface (S8) (LRR R,   CARR)   Polyvalue Below Surface (S8) (LRR R,   CARR)   Polyvalue Delow Surface (S8) (LRR R,   CARR)   Polyval	ks
1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2Location: PL=Pore Lining. M=Matrix  Hydric Soil Indicators:  Indicators for Problematic Hydric So  Pelavative Palew Surface (SS) (I PR P	
Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2Location: PL=Pore Lining. M=Matrix  Hydric Soil Indicators:  Indicators for Problematic Hydric So  Wichord (A1)	
Hydric Soil Indicators:  Indicators for Problematic Hydric So  Polyvolus Polyw Surface (SS) (LPD D	
Hydric Soil Indicators:  Indicators for Problematic Hydric So  Polyvalue Polyw Surface (S9) (LPD D	
Hydric Soil Indicators:  Indicators for Problematic Hydric So  Polyvalue Polyw Surface (S9) (LPD D	
Hydric Soil Indicators:  Indicators for Problematic Hydric So  Polyvolus Polyw Surface (SS) (LPD D	
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Hydric Soil Indicators:  Indicators for Problematic Hydric So  Polyvalue Polyw Surface (S9) (LPD D	
Hydric Soil Indicators:  Indicators for Problematic Hydric So  Polyvalue Polyw Surface (S9) (LPR R	
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History (A1)	3
MLRA 149B)	
Plack Histic (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B)	
Loamy Mucky Mineral (F1) LRR K, L)	K, L, R)
Stratified Layors (AS)  Loamy Gleyed Matrix (F2)	
Depleted Matrix (F3)	K, L)
Thick Dark Surface (A12) Redox Dark Surface (F6)	
Depleted Dark Surface (F7)	
Redox Depressions (F8)	
Condu Dodou (SE)	15, 149B)
Ctripped Metric (C/)	
Uvery Shallow Dark Surface (TF12)  □ Dark Surface (S7) (LRR R, MLRA 149B)  □ Other (Explain in Remarks)	
Utilet (Explain in Remarks)	
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	
Type: Hudric Scil Drocont3 V	lo •
Depth (inches): Hydric Soil Present? Yes O No	o <b>ড</b>
Remarks:	