## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Ci	ity/County:	Aitkin		Samplin	<b>g Date:</b> 31-Aug-17
Applicant/Owner: Enbridge				State: MN	ı s	ampling Point:	w-51n26w31-p2
Investigator(s): DPT			Section, To	wnship, Range:	<b>s.</b> 31	<b>T.</b> 51N	<b>R.</b> 26W
Landform (hillslope, terrace, etc.):	Lowland	Lo	•	ncave, convex, n		oncave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR	<	<b>Lat.:</b> 46	52.1579	Long	-93 4	1.1896	Datum: NAD 83
Soil Map Unit Name: 546			-			I classification:	N/A
Are climatic/hydrologic conditions	on the site ty	nical for this time of year	r? Yes	. ○ No ●	(If no, ex	xplain in Remarks	s.)
Are Vegetation, Soil	, or Hydrold				• ,	ances" present?	Yes   No
Are Vegetation, Soil	, or Hydrol					ny answers in Rer	
Summary of Findings - A	•				-	-	•
Hydrophytic Vegetation Present?	Yes •	No O				, <u>, , , , , , , , , , , , , , , , , , </u>	•
Hydric Soil Present?	Yes	No O		Sampled Area a Wetland?	ves 🖲	No O	
Wetland Hydrology Present?	Yes	No O	Within	a weuanu:	, 00	/ 110 =	
Remarks: (Explain alternative pr			\\				
Hydrology							
Wetland Hydrology Indicators:					2	· P. J (init-	
Primary Indicators (minimum of	one required:	check all that annly)				y Indicators (minimace Soil Cracks (B6)	
Surface Water (A1)	JIIC ICQuirca,	Water-Stained Leaves	(R9)			ace Soil Cracks (B6) nage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)	3 (57)		_	s Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)			Dry :	Season Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)		Cray	fish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosphere	s along Living	Roots (C3)		ration Visible on Aei	
Drift deposits (B3)		Presence of Reduced				ted or Stressed Plar	• •
Algal Mat or Crust (B4)		Recent Iron Reduction		s (C6)		morphic Position (D2	2)
☐ Iron Deposits (B5)☐ Inundation Visible on Aerial Imag	on, (D7)	☐ Thin Muck Surface (C	,			low Aquitard (D3)	/D.A.\
Sparsely Vegetated Concave Surf	•	U Other (Explain in Rem	narks)		_	otopographic Relief neutral Test (D5)	(D4)
operacy vogetates contact the	100 (20)				▼ IAS	Tieutiai Test (DS)	
Field Observations: Surface Water Present? Yes	● No ○	Depth (inches):	5				
		Depth (inches):		Wetland Hydr	ology Pre	esent? Yes	No O
(includes capillary fringe) Yes		Depth (inches):	0				
Describe Recorded Data (stream	gauge, monito	oring well, aerial photos,	previous insp	pections), if avail	able:		
Remarks:							
Remarks:							

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

VEGETATION - Use scientific fiames of pla	iiiG			Sampling Point: w-51n26w31-p2
(0)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1 Fraxinus nigra	80	✓	FACW	That are OBL, FACW, or FAC:
2. Ulmus americana	5		FACW	Total Number of Descious
3	0			Total Number of Dominant Species Across All Strata: 7 (B)
4	0			
5		$\overline{\Box}$		Percent of dominant Species
6		Ī		That Are OBL, FACW, or FAC: 100.0% (A/B)
7		Ī		Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- rotar cove	•	0BL species 20 x 1 = 20
1. Alnus incana	10	<b>✓</b>	FACW	
2. Acer rubrum	10	<u></u>	FAC	FACW species 130 x 2 = 260
3. Fraxinus nigra	5	<u></u>	FACW	FAC speciles <u>40</u> x 3 = <u>120</u>
4	-	$\overline{\Box}$		FACU species $0 \times 4 = 0$
5		П		UPL species $0 \times 5 = 0$
6		П		Column Total s: 190 (A) 400 (B)
		П		Dravialance Index D/A 2.105
7		- Total Covo		Prevalence Index = B/A = 2.105
Herb Stratum (Plot size: 5	25=	= Total Cove		Hydrophytic Vegetation Indicators:
	30	<b>✓</b>	FAC	Rapid Test for Hydrophytic Vegetation
1		<b>▼</b>	FACW	✓ Dominance Test is > 50%
2. Rubus hispidus				✓ Prevalence Index is ≤3.0 ¹
3. Impatiens capensis		<u>✓</u>	FACW	Morphological Adaptations <sup>1</sup> (Provide supporting
4. Calamagrostis canadensis			OBL	data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation <sup>1</sup> (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:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12		$\overline{\Box}$		Configuration to Management to the Configuration of
		= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30 )				groater than 6.26 it (iiii) taiii.
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 Cove	r	
				Hydrophytic
				Vegetation   Yes • No •
				Presenti
Remarks: (Include photo numbers here or on a separate sh	eet.)			

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

Soil Sampling Point: w-51n26w31-p2

Depth (inches)		Matrix		Redox Features		
(inches)	Color (m			Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-9	10YR	2/1	100		Muck	
9-20	10YR	3/2	100		Sand	
Type: C=Con	centration. D=	Depletio	n. RM=Redi	uced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup> Loc	ation: PL=Pore Lining, M=N	Matrix
lydric Soil I						
Histosol (				Polyvalue Below Surface (S8) (LRR R,		lematic Hydric Soils: 3
	pedon (A2)			MLRA 149B)	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Black Hist				☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)		ox (A16) (LRR K, L, R)
_	Sulfide (A4)			Loamy Mucky Mineral (F1) LRR K, L)		or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gleyed Matrix (F2)	Dark Surface (S7)	
_	Below Dark Su	urfaca (A	11\	Depleted Matrix (F3)		Surface (S8) (LRR K, L)
_	k Surface (A12		11)	Redox Dark Surface (F6)	Thin Dark Surface	
_				Depleted Dark Surface (F7)		Masses (F12) (LRR K, L, R)
	ıck Mineral (S1	)			Piedmont Floodpla	ain Soils (F19) (MLRA 149B)
_		4)		Redox Depressions (F8)		
Sandy Gle	eyed Matrix (S4	4)		Redox Depressions (F8)		6) (MLRA 144A, 145, 149B)
Sandy Gle	eyed Matrix (S4 dox (S5)	4)		☐ Redox Depressions (F8)	Mesic Spodic (TAG	ial (F21)
Sandy Gle Sandy Re Stripped M	eyed Matrix (S4 dox (S5) Matrix (S6)		4.400)	☐ Redox Depressions (F8)	<ul><li>☐ Mesic Spodic (TAG</li><li>☐ Red Parent Mater</li><li>☐ Very Shallow Dark</li></ul>	ial (F21) k Surface (TF12)
Sandy Gle Sandy Re Stripped M Dark Surf	eyed Matrix (S4 dox (S5) Matrix (S6) face (S7) (LRR	R, MLRA			☐ Mesic Spodic (TAd ☐ Red Parent Mater ☐ Very Shallow Darl ☐ Other (Explain in	ial (F21) k Surface (TF12)
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