WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	Sampling Date: 02-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: w-51n23w28-a2
Investigator(s): SMR	Section, Township, Range: S	T. 51N R. 23W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, no	
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.3167 Long	-93 15.9522 Datum: NAD 83
Soil Map Unit Name: 204C		NWI classification: N/A
Are climatic/hydrologic conditions on the site ty	pical for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrol		Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrol	ogy	xplain any answers in Remarks.)
	map showing sampling point location	
Hydrophytic Vegetation Present? Yes	No O	
Hydric Soil Present? Yes ●	No O Is the Sampled Area within a Wetland?	Yes No
Wetland Hydrology Present? Yes Yes	No O	
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 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) Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	United (Expiration Remarks)	FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No •	Depth (inches):0	
Water Table Present? Yes • No	Depth (inches):7	
Saturation Present? (includes capillary fringe) Yes • No •	Depth (inches): 3	ology Present? Yes No
	oring well, aerial photos, previous inspections), if availa	able:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pic	ants			Sampling Point: w-51n23w28-a2
(0) (1) (2)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:3 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata:3 (B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				0BL speci es 40 x 1 = 40
1	0			FACW species 40 x 2 = 80
2	0			
3				FAC speciles 20 x 3 = 60
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6.				Column Totals: 100 (A) 180 (B)
7				Dravalance Inday D/A 1 000
7		= Total Cove		Prevalence Index = B/A =1.800_
Herb Stratum (Plot size: 5		- Total Cove		Hydrophytic Vegetation Indicators:
4. On a language to the life	30	✓	FACW	Rapid Test for Hydrophytic Vegetation
0.0		✓		✓ Dominance Test is > 50%
		✓	OBL	✓ Prevalence Index is ≤3.0 ¹
3. Eutrochlum purpureum			FAC	Morphological Adaptations ¹ (Provide supporting
4. Solidago gigantea			FACW	data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
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				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2		\Box		
·—·	-	= 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			•	greater than 3.26 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.
т.,	0 =	= Total Cove	-	l nongri
		- Total Cove	•	
				Hydrophytic
				Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate sl	neet.)			

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

Soil Sampling Point: w-51n23w28-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	th Matrix Redox Features						_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR	2/1	100						Silt Loam	
5-20	10YR	5/2	70	10YR	5/6	30	С	М	Silt Loam	
									-	
						-				
1 Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix.	CS=Covere	ed or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil I		_ 0010110	Nou			Joun		2000	-	
Histosol (A				Polya	alue Relo	w Surface	(\$8) (1 RR 1	R		ematic Hydric Soils: 3
	pedon (A2)				A 149B)	V Surface	(30) (LITT	10,		(LRR K, L, MLRA 149B)
Black Histi				Thin	Dark Surfa	ace (S9) (I	LRR R, MLI	RA 149B)		x (A16) (LRR K, L, R)
	Sulfide (A4)	ı		Loan	ny Mucky I	Mineral (F1) LRR K, L)		or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loan	ny Gleyed	Matrix (F2))		Dark Surface (S7)	
	Below Dark	Surface (A	11)	✓ Depl	eted Matri	x (F3)				urface (S8) (LRR K, L)
	k Surface (A		,	Redo	x Dark Su	rface (F6)			☐ Thin Dark Surface	
	ck Mineral (Depl	eted Dark	Surface (F	7)			lasses (F12) (LRR K, L, R)
_	yed Matrix (Redo	x Depress	ions (F8)				in Soils (F19) (MLRA 149B)
Sandy Red		,) (MLRA 144A, 145, 149B)
Stripped N									Red Parent Materia	
	ace (S7) (LR	R R, MLRA	149B)							
							P			Remarks)
³ Indicators of			n and wetta	ina nyarology	must be p	resent, un	iess distur	bed or probl	ematic.	
Restrictive La	ayer (if obs	erved):								
Type:									Hydric Soil Present?	Yes ● No ○
Depth (inch	nes):								nyuric Soil Present?	Yes S No C
Remarks:										