WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Cit	ty/County:	Aitkin		Samplin	g Date: 28-Aug-17
Applicant/Owner: Enbridge				State: MN		Sampling Point:	w-51n24w31-a4
Investigator(s): SMR			Section, To	wnship, Range:	s. 31	T. 51N	R. 24W
Landform (hillslope, terrace, etc.):	Lowland	Lo	ocal relief (co	ncave, convex, n	one): (concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR	(Lat.: 46	51.8476	Long	-93 2	26.1724	Datum: NAD 83
Soil Map Unit Name: 292					NV	VI classification:	N/A
Are climatic/hydrologic conditions	on the site ty	pical for this time of year	r? Yes	○ No ●	(If no, e	explain in Remarks	s.)
Are Vegetation, Soil	, or Hydrol			Are "Normal	• ,	stances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrolo	ogy naturally prob	blematic?			nny answers in Ren	narks.)
Summary of Findings - A		·		•	-	-	•
Hydrophytic Vegetation Present?	Yes	No O					
Hydric Soil Present?	Yes 💿	No O		Sampled Area a Wetland?	Yes (● No ○	
Wetland Hydrology Present?	Yes 💿	No O					
Remarks: (Explain alternative pr	ocedures here	or in a separate report.))				
Hydrology							
Wetland Hydrology Indicators:					Seconda	ary Indicators (minim	um of 2 required)
Primary Indicators (minimum of o	one required;	check all that apply)				face Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves	s (B9)		Dra	inage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)				ss Trim Lines (B16)	
✓ Saturation (A3) Water Marks (B1)		Marl Deposits (B15)	/= - \			Season Water Table	(C2)
Sediment Deposits (B2)		Hydrogen Sulfide Odo		D 1- (02)		yfish Burrows (C8)	rial Imagany (CO)
Drift deposits (B3)		Oxidized Rhizospheres Presence of Reduced		Roots (C3)		uration Visible on Aer nted or Stressed Plar	0 3 . ,
Algal Mat or Crust (B4)		Recent Iron Reduction		(CY)		omorphic Position (D2	, ,
☐ Iron Deposits (B5)		Thin Muck Surface (C)		(00)		llow Aquitard (D3)	-7
☐ Inundation Visible on Aerial Imag	ery (B7)	Other (Explain in Rem	•		Mici	rotopographic Relief	(D4)
Sparsely Vegetated Concave Surfa	ace (B8)	_ , ,	,		✓ FAC	C-neutral Test (D5)	
Field Observations:							
Surface Water Present? Yes		Depth (inches):	0				
Water Table Present? Yes	● No ○	Depth (inches):	3				N - (
Saturation Present? (includes capillary fringe) Yes	● No ○	Depth (inches):	0	Wetland Hydr	rology Pr	resent? Yes	No O
Describe Recorded Data (stream of	gauge, monito	oring well, aerial photos,	previous insp	pections), if avail	lable:		
Remarks:							

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n24w31-a4			
(0) - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1 Fraxinus nigra	60	✓	FACW	That are OBL, FACW, or FAC:7 (A)
2. Quercus bicolor		✓	FACW	Total Number of Dominant
3	0			Species Across All Strata:
4	0			
5	0			Percent of dominant Species That Are ORL FACW or FAC: 100.0% (A/B)
6				That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove	r	Total % Cover of: Multiply by:
A Alpus incone	20		FACW	0BL speci es 80 x 1 = 80
O. Ulmus amaricana		✓	FACW	FACW species
			TACVV	FAC speciles 0 x 3 = 0
3				FACU species $0 \times 4 = 0$
4				UPL speci es $0 \times 5 = 0$
5				Column Totals: 210 (A) 340 (B)
6				Column locals. 210 (A) 340 (5)
7				Prevalence Index = B/A = 1.619
Herb Stratum (Plot size: 5)	30=	= Total Cove	r	Hydrophytic Vegetation Indicators:
			ODI	✓ Rapid Test for Hydrophytic Vegetation
1. Calamagrostis canadensis		~	OBL	✓ Dominance Test is > 50%
2. Carex lacustris		V	OBL	Prevalence Index is ≤3.0 ¹
3. Impatiens capensis		~	FACW	Morphological Adaptations ¹ (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				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.				
		= 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)				
1				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 Present? Yes No
				Present? Yes No
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: w-51n24w31-a4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth <u>Matrix</u>			Redox Features					_				
(inches)	Color	(moist)		Color (moist)	%	Type	Loc2	Texture	Remarks		
0-4	10YR	2/2	100				_		Clay Loam			
4-20	10YR	4/2	80	10YR	4/4	20	С	M	Clay Loam			
		-				-						
	-	-		-	-	-						
		-					-					
1 Type: C=Cond	rentration [) – Denletio	n RM-Red	uced Matrix (S-Cover	ed or Coate	ed Sand G	rains 21 oca	ation: PL=Pore Lining. M=M	atriy		
Hydric Soil I		•	II. KWI–KCG	acca mann, c	33-00VCI	ca or coate	ca Sana O	diris Locc				
Histosol (A				Dolor	raluo Dolo	w Surface ((88) (1 DD	D		ematic Hydric Soils: 3		
Histosoi (A	•				alue Belov A 149B)	w surface ((30) (LKK	Ν,		(LRR K, L, MLRA 149B)		
Black Histi				Thin	Thin Dark Surface (S9) (LRR R, MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)			
	Sulfide (A4)	`		Loamy Mucky Mineral (F1) LRR K, L)					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Layers (A5))				Matrix (F2)			Dark Surface (S7) (LRR K, L, M)			
	Below Dark	Surface (A	11)		eted Matri				Polyvalue Below Surface (S8) (LRR K, L)			
	k Surface (A		11)			rface (F6)			Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (Surface (F	7)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	yed Matrix				x Depress				☐ Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Red		(34)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
									Red Parent Material (F21)			
	☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR R, MLRA 149B)											
									Other (Explain in F	Remarks)		
³ Indicators of	hydrophyti	c vegetatio	n and wetla	nd hydrology	must be p	oresent, un	lless distur	bed or probl	ematic.			
Restrictive La	ayer (if ob	served):										
Type:												
Depth (inch	nes):								Hydric Soil Present?	Yes No		
Remarks:												
rtemants.												