WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Aitkin		6-	moling Date: 22 San 17	
					mpling Date: 22-Sep-17	
Applicant/Owner: Enbridge		State:	MN	Sampling Poi	int: w-50n20w2-a5	
Investigator(s): PJK	Section, T	ownship, Rang	ge: S. 2	T. 50N	R. 20W	
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, conve	ex, none):	concave	Slope: <u>0.0</u> % / <u>0.0</u> °	
Subregion (LRR or MLRA): LRR K	46 51.75	L	.ong.: .92	2 49.9871	Datum: NAD 83	
Soil Map Unit Name: B127B			-	NWI classificat	tion: N/A	
Are climatic/hydrologic conditions on the site typical for this time of	of year? Ye	s 🖲 No 🔿	(If no	, explain in Re	marks.)	
Are Vegetation, Soil, or Hydrology signific	antly disturbed?	Are "Nor	mal Circur	nstances" pres	sent? Yes $ullet$ No $igodot$	
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 natural	ly problematic?	(If neede	ed, explair	n any answers	in Remarks.)	
Summary of Findings - Attach site map showing	g sampling p	oint locati	ions, tra	ansects, in	nportant features, etc	
Hydrophytic Vegetation Present? Yes 🔍 No 🔾						
Hydric Soil Present? Yes 🔍 No 🔾		e Sampled Are n a Wetland?	a Yes	\bullet No \bigcirc		
Wetland Hydrology Present? Yes 🔍 No 🔾						
Remarks: (Explain alternative procedures here or in a separate re	eport.)					

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)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	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)		FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches): 3	
Water Table Present? Yes No	Depth (inches): 0	
Saturation Present? Yes • No ·	Wetland Hy Depth (inches): 0	/drology Present? Yes 💿 No 🔿
Describe Recorded Data (stream gauge, monitor	pring well, aerial photos, previous inspections), if av	vailable:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - Use sciencific names of plat	115			Sampling Point: w-50n20w2-a5
Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	O	Indicator Status	Dominance Test worksheet:
	60	-	FACW	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)
				That are OBL, FACW, or FAC: <u>5</u> (A)
2. Populus tremuloides			FACU	Total Number of Dominant
3	0			Species Across All Strata:7(B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:71.4% (A/B)
6	0			
7	0			Prevalence Index worksheet:
	80 =	Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL speciles 60 x 1 = 60
1. Alnus incana	30	\checkmark	FACW	FACW species 110 x 2 = 220
2. Ulmus americana	20	\checkmark	FACW	FAC speciles $15 \times 3 = 45$
3	0			·
4				FACU species 40 x 4 = 160
5				UPL species x 5 =
6				Column Totals: <u>225</u> (A) <u>485</u> (B)
-	-			Prevalence Index = $B/A = 2.156$
7		Total Cover		Prevalence Index = $B/A = 2.156$
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
1. Pteridium aquilinum	20	\checkmark	FACU	
2. Carex lacustris	40	\checkmark	OBL	✓ Dominance Test is > 50%
3. Athyrium angustum	15		FAC	V Prevalence Index is \leq 3.0 ¹
4. Calamagrostis canadensis		\checkmark	OBL	Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9	0			Demitions 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				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: <u>30</u>)	95 =	Total Cover		greater than 3.28 ft (1m) tall.
	0			Harb All borbassaus (non woody) planta, regardlass of
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
		Total Cover		
				Hydrophytic
				Vegetation Present? Yes • No ·
.				
Remarks: (Include photo numbers here or on a separate she	et.)			

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

US Army Corps of Engineers

Inches) Color (moist) % Color (moist) % Type Loc ² Texture Remarks 0.4 10YR 2/1 100	Depth		Matrix							absence of indicators.)		
0-4 10YR 2/1 100	(inches)	(inches) Color (moist) %		%	<u>Redox Features</u> Color (moist) % Type ¹ Loo				Loc ²	Texture	Remarks	
4.20 10YR 4/2 80 10YR 4/6 20 C M Clay Loam ype: Cay Loam Image: Carl Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Location: PL=Pore Lining. M=Matrix ype: Carl Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Location: PL=Pore Lining. M=Matrix ype: Carl Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Location: PL=Pore Lining. M=Matrix ype: Carl Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Location: PL=Pore Lining. M=Matrix ype: Carl Muck (A10) (LRR X, L, MLRA 149P) Image: Carl Muck (A10) (LRR X, L, MLRA 149P) Histosol (A1) Image: Carl Muck (A10) (LRR X, L, MLRA 149P) Cast Prairie Redox (A16) (LRR X, L, R) Hydrogen Suffide (A3) Image: Carl Muck (A10) (LRR X, L, R) Dark Surface (S7) (LRR X, L, R) Back Histic (A3) Image: Carl Muck (A10) (LRR X, L, R) Dark Surface (S7) (LRR X, L, R) Stratified Layers (A5) Depleted Dark Surface (F7) Polyvalue Below Surface (S8) (LRR X, L, R) Depleted Below Dark Surface (S7) Red Arent Material (S1) Red Arent Material (S1) Polyvalue Selow Surface (S7) (LRR X, L, R) Stripped Matrix (S6) <								.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
ype: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Location: PL=Pore Lining. M=Matrix ydric Soil Indicators:												
Vertic Soil Indicators: Indic	4-20	10YR	4/2	80	10YR	4/6	20	C		Clay Loam		
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Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	Sandy Gley Sandy Red	dox (S5)	S4)								ial (F21)	
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	Sandy Gley Sandy Red Stripped M Dark Surfa Indicators of estrictive La Type: Depth (inch	dox (S5) Aatrix (S6) ace (S7) (LRF hydrophytic ayer (if obs	R R, MLRA vegetatio		nd hydrology r	must be p	present, un	less distur	bed or probl	Very Shallow Dark	al (F21) x Surface (TF12) Remarks)	
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	Sandy Gley Sandy Red Stripped M Dark Surfa Indicators of estrictive La Type: Depth (inch	dox (S5) Aatrix (S6) ace (S7) (LRF hydrophytic ayer (if obs	R R, MLRA vegetatio		nd hydrology r	must be p	present, un	less distur	bed or probl	Very Shallow Dark	al (F21) x Surface (TF12) Remarks)	
	Sandy Gley Sandy Red Sitripped M Dark Surfa Indicators of estrictive La Type:	dox (S5) Aatrix (S6) ace (S7) (LRF hydrophytic ayer (if obs	R R, MLRA vegetatio		nd hydrology r	must be p	present, un	less distur	bed or probl	Very Shallow Dark	al (F21) x Surface (TF12) Remarks)	
	Sandy Gley Sandy Red Stripped M Dark Surfa Indicators of estrictive La Type: Depth (inch	dox (S5) Aatrix (S6) ace (S7) (LRF hydrophytic ayer (if obs	R R, MLRA vegetatio		nd hydrology r	must be p	present, un	less distur	bed or probl	Very Shallow Dark	al (F21) x Surface (TF12) Remarks)	
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