WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	:	Sampling Date: 13-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling F	Point: w-50n20w2-b2
Investigator(s): DPT	Section, To	ownship, Range: S.	2 т. 50	ON R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, convex, non	e): concave	Slope: <u>0.0</u> % / <u>0.0</u> °
Subregion (LRR or MLRA): LRR K	.at.: 46 50.9059	Long.:	-92 49.5736	Datum: NAD 83
Soil Map Unit Name: 1020A	8		NWI classific	cation: N/A
	ficantly disturbed? ally problematic?	Are "Normal Cir (If needed, exp	Iain any answei	resent? Yes No
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area	Yes $ullet$ No $igcap$	
Remarks: (Explain alternative procedures here or in a separate	report.)			

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 O No 💿	Depth (inches): 0	
Water Table Present? Yes O No 🖲	Depth (inches): 0	
Saturation Present? Yes O No •	Wetland Hy Depth (inches): 0	ydrology Present? Yes 💿 No 🔿
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections), if av	vailable:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plan	nts			Sampling Point: w-50n20w2-b2
	Absolute	O	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Demont of dominant Chapies
5				Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6				
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		= Total Cover		Total % Cover of: Multiply by:
1. Alnus incana	80	\checkmark	FACW	OBL speciles <u>5</u> x 1 = <u>5</u>
2 Salix petiolaris	5		FACW	FACW species <u>165</u> x 2 = <u>330</u>
3	-			FAC speciles x 3 = 15
4.	_			FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6				Column Totals: <u>175</u> (A) <u>350</u> (B)
7	-			Prevalence Index = $B/A = 2.000$
		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)				✓ Rapid Test for Hydrophytic Vegetation
1. Calamagrostis canadensis	5		OBL	✓ Dominance Test is > 50%
2. Eutrochlum purpureum	5		FAC	V Prevalence Index is $\leq 3.0^{1}$
3. Phalaris arundinacea	80		FACW	Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Definitions of Vegetation Strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
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)	90 =	= Total Cover		greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0		M	size, and woody plants less than 3.28 ft tall.
3	0		n	Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= 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

Image: Color (moist) % Color (moist) % Type Loc2 Texture Remarks 2.20 10YR 4/2 90 10YR 4/6 10 C M Clay Leam 2.20 10YR 4/2 90 10YR 4/6 10 C M Clay Leam 2.20 10YR 4/2 90 10YR 4/6 10 C M Clay Leam 2.20 10YR 4/2 90 10YR 4/6 10 C M Clay Leam 2.20 10YR 4/2 90 10YR 4/6 10 C M Clay Leam 2.20 10YR 4/6 10 C M Clay Leam 10<	Depth	Matrix			dox Featu			absence of indicators.)	
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Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Cother (Explain in Remarks) Cother (Exp	Sandy Mu	ck Mineral (S1)		Depleted Dark	Surface (F	/)		Diadmont Floodal	ain Saile (E10) (MLDA 140P)
Stripped Matrix (S6) Image: Red Falent Material (121) Dark Surface (S7) (LRR R, MLRA 149B) Image: Display Dark Surface (TF12) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remarks) trictive Layer (if observed): Type: Image: Display Dark Surface (Display Dark Surf						/)			
Dark Surface (S7) (LRR R, MLRA 149B) Image: Control of the surface (T112) Didicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type:	Sandy Gle	eyed Matrix (S4)				7)		Mesic Spodic (TA	6) (MLRA 144A, 145, 149B)
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trictive Layer (if observed): Type:	Sandy Gle Sandy Rec Stripped M	eyed Matrix (S4) dox (S5) Matrix (S6)	149B)			7)		Mesic Spodic (TA) Red Parent Mater Very Shallow Darl	6) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12)
Туре:	Sandy Gle Sandy Rec Stripped M Dark Surfa	eyed Matrix (S4) dox (S5) Matrix (S6) ace (S7) (LRR R, MLRA		Redox Depres	sions (F8)			Mesic Spodic (TAr Red Parent Mater Very Shallow Darl Other (Explain in	6) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12)
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	Sandy Gle Sandy Rec Stripped M Dark Surfa dicators of trictive La Type: Depth (inch	eyed Matrix (S4) dox (S5) Matrix (S6) ace (S7) (LRR R, MLRA [†] hydrophytic vegetatio ayer (if observed):		Redox Depres	sions (F8)		bed or proble	Mesic Spodic (TAr Red Parent Mater Very Shallow Darl Other (Explain in ematic.	6) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)