WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Samplii	ng Date: 13-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-50n20w1-b1
Investigator(s): DPT	Section,	Township, Range: S. 1	T. 50N	R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 50.6993	Long.: -9	2 49.2450	Datum: NAD 83
Soil Map Unit Name: B127B			NWI classification:	N/A
	nificantly disturbed? urally problematic? /ing sampling 	(If needed, explai	mstances" present? n any answers in Re ansects, impo	marks.)
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		ne Sampled Area nin a Wetland? Ye:	5 • No ()	
Remarks: (Explain alternative procedures here or in a separat	te 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 No	Depth (inches): <u>18</u>						
Saturation Present? (includes capillary fringe) Yes	Wetland Hy Depth (inches): 10	drology Present? Yes 🖲 No 🔾					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

VEGETATION - Use scientific names of plants

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Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Populus tremuloides	40	\checkmark	FACU	That are OBL, FACW, or FAC:6(A)
2. Fraxinus nigra	30	\checkmark	FACW	
3	0			Total Number of Dominant Species Across All Strata: 7 (B)
4	0			
5				Percent of dominant Species
6	0			That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)
7.	0			Prevalence Index worksheet:
1		Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		Total Cover		OBL species 50 x 1 = 50
1. Fraxinus nigra	20	\checkmark	FACW	
2. Ilex verticillata	20		FACW	FACW species <u>110</u> x 2 = <u>220</u>
3	0			FAC speciles <u>10</u> x 3 = <u>30</u>
4		\Box		FACU species 40 x 4 = 160
5				UPL species x 5 =
6				Column Totals:(A)(B)
7	0			Dravalance Index D/A 2 100
1		Total Cover		Prevalence Index = $B/A = 2.190$
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
1. Calamagrostis canadensis	50		OBL	✓ Dominance Test is > 50%
2. Athyrium filix-femina	10		FAC	✓ Prevalence Index is ≤3.0 ¹
3. Rubus hispidus	20		FACW	Morphological Adaptations ¹ (Provide supporting
4. Phalaris arundinacea	20		FACW	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:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12	0			
Woody Vine Stratum (Plot size: 30)		Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	0			size, and woody plants less than 3.28 ft tall.
2	0			
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
		Total Cover		
				Hydrophytic Vegetation Present? Yes • No O
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.

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Profile Descr	iption: (De	scribe to	the depth	needed to docun	nent the indi	cator or co	onfirm the	absence of indicators.)	
Depth <u>Matrix</u> (inches) Color (moist) %			Redox Features				- <u> </u>		
(inches)			<u>%</u>	Color (moist	:) %	Type ¹	Loc ²	Texture	Remarks
0-4	10YR	3/1	100					Silty Clay Loam	
4-20	10YR	4/1	80	10YR 5/	6 20	C	Μ	Silt Loam	
-									
									· · · · · · · · · · · · · · · · · · ·
		-							
				· · ·					
	contration D	-Depletic	n PM-Ped	uced Matrix CS-Co	wered or Coat	ted Sand Gr	ains 21 oca	ation: PL=Pore Lining. M=M	atriv
		-Depietic	n. Kw–Keu						
Hydric Soil 1						(00) (100)	-	Indicators for Proble	ematic Hydric Soils: ³
				MLRA 149	Below Surface 3)	(58) (LRR I	Κ,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
	pedon (A2)			_	, Surface (S9)	(LRR R, MLF	RA 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
Black Hist				_	cky Mineral (F			5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)
	Sulfide (A4)				yed Matrix (F2		, ,	Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)	C	11)	Depleted N		-,		Polyvalue Below S	urface (S8) (LRR K, L)
	Below Dark		(11)		k Surface (F6)			Thin Dark Surface	(S9) (LRR K, L)
	k Surface (A			_	ark Surface (I			Iron-Manganese M	lasses (F12) (LRR K, L, R)
	uck Mineral (S				ressions (F8)	.,		Piedmont Floodpla	in Soils (F19) (MLRA 149B)
	eyed Matrix (S4)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re								Red Parent Materi	al (F21)
	Matrix (S6)							Very Shallow Dark	Surface (TF12)
Dark Surf	ace (S7) (LR	R R, MLRA	A 149B)					Other (Explain in F	Remarks)
³ Indicators of	f hydrophytic	vegetatic	on and wetla	and hydrology must	be present, u	nless disturl	bed or proble	ematic.	
Restrictive L	aver (if obs	erved):							
Type:									
Depth (inc	hos).							Hydric Soil Present?	Yes 🔍 No 🔾
•	nes).								
Remarks:									