WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22				City/County:	St. Louis		Sampli	ing Date: 08-Sep-17
Applicant/Owner: Enbridge					State: MN	l	Sampling Point:	w-51n21w22-a2
Investigator(s): DPT				Section, T	ownship, Range:	s. 2	T. 51N	R. 21W
Landform (hillslope, terrace	, etc.): L	owland		Local relief (c	concave, convex, n	one)): concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K		Lat.:	46 53.3278	Lond	1.: -	92 58.5373	Datum: NAD 83
Soil Map Unit Name: B107				10 00.0270		_	NWI classification:	
				- V	es No			
Are climatic/hydrologic cond		-				•	no, explain in Remarl	·
Are Vegetation $igsqcup$, Soi	ı 🗆 ,	or Hydrol	ogy 🗌 significant	tly disturbed?	Are "Normal	Circ	umstances" present?	Yes No
Are Vegetation $\ \ \ \ \ \ \ $, Soi	ι 🗌 ,	or Hydrol	ogy 🗌 naturally p	problematic?	(If needed,	expla	ain any answers in Re	emarks.)
Summary of Finding	js - Atta	ach site		sampling p	oint location	ıs, t	ransects, impo	ortant features, etc
Hydrophytic Vegetation Pre		Yes	No O					
Hydric Soil Present?		Yes	No O		e Sampled Area in a Wetland?	Υe	es 💿 No 🔾	
Wetland Hydrology Present	:?	Yes	No O	1114				
Hydrology Wetland Hydrology Indicat	ors:					Seci	ondary Indicators (mini	mum of 2 required)
Primary Indicators (minim		required:	check all that apply)				Surface Soil Cracks (Be	
Surface Water (A1)			Water-Stained Lea	aves (B9)			Drainage Patterns (B10	
✓ High Water Table (A2)			Aquatic Fauna (B1				Moss Trim Lines (B16)	
✓ Saturation (A3)			Marl Deposits (B15	5)			Dry Season Water Tab	ie (C2)
Water Marks (B1)			Hydrogen Sulfide	Odor (C1)			Crayfish Burrows (C8)	
Sediment Deposits (B2)			Oxidized Rhizosph	neres along Living	g Roots (C3)		Saturation Visible on A	erial Imagery (C9)
Drift deposits (B3)			Presence of Reduc	` ,			Stunted or Stressed Pla	• •
Algal Mat or Crust (B4)			Recent Iron Reduc	ction in Tilled So	ils (C6)	✓	Geomorphic Position (I)2)
☐ Iron Deposits (B5)		(DZ)	Thin Muck Surface	• •			Shallow Aquitard (D3)	. (= .)
Inundation Visible on AeriSparsely Vegetated Conca	0 3		Other (Explain in F	Remarks)			Microtopographic Relie	f (D4)
sparsely vegetated conca	ve surrace	(DO)				V	FAC-neutral Test (D5)	
Field Observations:		0						
Surface Water Present?	Yes	No O	Depth (inches):	4	_			
Water Table Present?	Yes	No O	Depth (inches):	0			V	No ○
Saturation Present? (includes capillary fringe)	Yes •	No O	Depth (inches):	0	Wetland Hydi	rolog	y Present? Yes	● NO ○
Describe Recorded Data (s	ream gau	ge, monito	oring well, aerial photo	os, previous in	spections), if avai	lable	:	
Remarks:								
itomarks.								

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCING Hames of pio	Sampling Point: w-51n21w22-a2							
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:				
			Status	Number of Dominant Species				
1. Populus balsamifera		✓	FACW	That are OBL, FACW, or FAC:6(A)				
2				Total Number of Dominant				
3	0			Species Across All Strata:6 (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		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15		- rotar cove		0BL species 100 x 1 = 100				
1 Alnus incana	20	✓	FACW					
2. Salix petiolaris	20	<u></u>	FACW	FACW species <u>85</u> x 2 = <u>170</u>				
3. Salix bebbiana	10	$\overline{\Box}$	FACW	FAC speci es x 3 = 0				
4. Cornus alba	20	<u></u>	FACW	FACU species				
5				UPL species $0 \times 5 = 0$				
				Column Totals: 185 (A) 270 (B)				
6								
7				Prevalence Index = B/A = 1.459				
Herb Stratum (Plot size: 5)	80 =	= Total Cove	r	Hydrophytic Vegetation Indicators:				
				✓ Rapid Test for Hydrophytic Vegetation				
1. Carex lacustris		✓	OBL	✓ Dominance Test is > 50%				
2. Calamagrostis canadensis		✓	OBL	Prevalence Index is ≤3.0 ¹				
3	0			Morphological Adaptations ¹ (Provide supporting				
4	0			data in Remarks or on a separate sheet)				
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)				
6								
7				¹ Indicators of hydric soil and wetland hydrology must				
8				be present, unless disturbed or problematic.				
				Definitions of Vegetation Strata:				
9				-				
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter				
1				at breast height (DBH), regardless of height.				
2				Sapling/shrub - Woody plants less than 3 in. DBH and				
Woody Vine Stratum (Plot size: _30)	100 =	Total Cove	r	greater than 3.28 ft (1m) tall				
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
2				312c, and woody plants less than 5.25 it tail.				
3				Woody vine - All woody vines greater than 3.28 ft in				
4				height.				
	0 =	Total Cove	r					
				Hydrophytic				
				Vegetation Present? Yes No				
				Present? Yes No V				
Remarks: (Include photo numbers here or on a separate sh	eet.)							

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

Soil Sampling Point: w-51n21w22-a2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)													
Depth Matrix				Redox Features					-				
(inches)	Color (moist)	%	Color (noist)	%	Type ¹	Loc2	Texture	Rem	arks		
0-3	10YR	2/1	100						Muck				
3-8	10YR	3/1	100						Sandy Clay Loam				
8-20		4/1	80	10YR	4/6	20	С	M	Sandy Clay Loam				
		-	-		-								
		-											
					-								
						-	-						
-					-								
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix													
Hydric Soil I									Indicators for Prob	ematic Hydric	c Soils: 3		
Histosol (A	,					w Surface ((S8) (LRR I	₹,	2 cm Muck (A10)				
	oedon (A2)				(149B) Dork Surf	200 (20) (1	LRR R, MLI	OA 140D)	Coast Prairie Red				
Black Histi) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	Sulfide (A4)					Matrix (F2))	Dark Surface (S7) (LRR K, L, M)				
	Layers (A5)				eted Matri		,		Polyvalue Below S	Surface (S8) (LF	RR K, L)		
	Below Dark S		11)		x Dark Su				☐ Thin Dark Surface (S9) (LRR K, L)				
	k Surface (A					Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)				
	ck Mineral (S				x Depress		,,		Piedmont Floodplain Soils (F19) (MLRA 149B)				
	eyed Matrix (S4)			л Боргооо	.01.0 (1.0)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sandy Red									Red Parent Material (F21)				
Stripped N	viatrix (56) ace (S7) (LRI	D D MIDA	140D)										
									Uther (Explain in Remarks)				
³ Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	must be p	resent, un	less distur	oed or proble	ematic.				
Restrictive La	ayer (if obs	erved):											
Type:													
Depth (inch	hes):								Hydric Soil Present?	Yes 💿	No O		
Remarks:													