WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 08-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: u-51n21w23-a3
Investigator(s): SMR	Section, Township, Range: S.	23 T. 51N R. 21W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, non	
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.2989 Long.:	-92 57.6743 Datum: NAD 83
Soil Map Unit Name: GP		NWI classification: N/A
Are climatic/hydrologic conditions on the site typic	cal for this time of year? Yes No (I	f no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology		rcumstances" present? Yes No
Are Vegetation , Soil , or Hydrology		reamstances present.
_ , _ , , ,	nap showing sampling point locations,	plain any answers in Remarks.) . transects, important features, etc
<u> </u>	lo	
	Is the Sampled Area	Yes ○ No ●
1,	within a Wetland?	TES C INU C
Remarks: (Explain alternative procedures here of		
Hydrology Wetland Hydrology Indicators:		Ladinator (whiteway of 2 required)
Primary Indicators (minimum of one required; ch		econdary Indicators (minimum of 2 required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6) 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) Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2) Shallow Aguitard (D3)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	☐ Snallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0	
Water Table Present? Yes No		
Saturation Present?	Depth (inches): 0 Wetland Hydrole Depth (inches): 0	ogy Present? Yes O No 🖲
(includes capillally fringe)	ng well, aerial photos, previous inspections), if availab	ole:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pic	Sampling Point: u-51n21w23-a3			
(0) 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:1 (A)
2	0			THIN I GO I HA
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				(,
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 50.0% (A/B)
7				Prevalence Index worksheet:
7:		= Total Cove		
Sapling/Shrub Stratum (Plot size: 15		- Total Cove		
1	0			
2				FACW species
3				FAC speci es x 3 =
				FACU species30 x 4 =120
4			-	UPL species $0 \times 5 = 0$
5			-	Column Totals: 100 (A) 260 (B)
6				
7				Prevalence Index = B/A =
Herb Stratum (Plot size: 5	0 =	= Total Cove	r	Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
1. Solidago canadensis			FACU	Dominance Test is > 50%
2. Phalaris arundinacea		✓	FACW	Prevalence Index is ≤3.0 ¹
3. Pteridium aquilinum		✓	FACU	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.
9				Definitions of Vegetation Strata:
0				
				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				at breast height (DDF), regardless of height.
12	-		-	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
	0			Herb - All herbaceous (non-woody) plants, regardless of
1			-	size, and woody plants less than 3.28 ft tall.
2			-	
3				Woody vine - All woody vines greater than 3.28 ft in
4			-	height.
		= Total Cove	r	
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate sh	neet)			
romanta, frictione buoto imilibera fiere of off a sebarate si	iceu <i>j</i>			

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

Soil Sampling Point: u-51n21w23-a3

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Color (Matrix moist)	%	Color (dox Feati	ures Type ¹	Loc ²		Rem	arks
0-5	10YR	4/3	100	COIOI	illoist		Турс	LUC	Very Fine Sandy Loam	Kem	uiks
5-16	10YR	4/4	100						Very Fine Sandy Loam		
				10\/D	4/2	10					
16-20	10YR	4/2	90	10YR	4/3	10	C		Silt Loam		
		-			-						
						_					
						_					
			-	-		-	-				
	-					_					
1 0 0		Davidatia			20. 0				eties Di Deselision M M		
J		=Depletio	n. RIVI=Re	duced Matrix, C	2=Cover	ed or Coat	ea Sana Gr	ains ²Loca	ation: PL=Pore Lining. M=N		2
Hydric Soil 1				□ Dolu	olus Dala	uu Curfaaa	(CO) (LDD I	2	Indicators for Proble	ematic Hydric	Soils: 3
	pedon (A2)				alue Belo 149B)	w Surface	(S8) (LRR I	₹,	2 cm Muck (A10)		•
Black Hist				Thin	Dark Surf	face (S9) ((LRR R, MLI	RA 149B)	Coast Prairie Redo		
	Sulfide (A4)			Loam	ny Mucky	Mineral (F	1) LRR K, L)	5 cm Mucky Peat		RR K, L, R)
	Layers (A5)					Matrix (F2	2)		☐ Dark Surface (S7) ☐ Polyvalue Below S		DD K I)
Depleted	Below Dark S	Surface (A	.11)		eted Matr				Thin Dark Surface		
Thick Dar	k Surface (A1	12)				urface (F6)			☐ Iron-Manganese N		
	ıck Mineral (S					Surface (F sions (F8)	- /)		Piedmont Floodpla		
	eyed Matrix (S4)		Redu	x Depres	SIULIS (FO)			☐ Mesic Spodic (TA6) (MLRA 144A,	145, 149B)
Sandy Re									Red Parent Materi	al (F21)	
	Matrix (S6) ace (S7) (LRF	OD MIDA	\ 140P\						Very Shallow Dark)
									Other (Explain in I	Remarks)	
Indicators of	f hydrophytic	vegetatio	n and wet	and hydrology	must be	present, ur	nless distur	bed or probl	lematic.		
Restrictive L	ayer (if obs	erved):									
Туре:									Hydric Soil Present?	Yes 〇	No •
Depth (inc	hes):								riyuric 30ii Fresenti	res \smile	NO S
Remarks:											