WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 09-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: u-51n21w24-b6
Investigator(s): PJK	Section, Township, Range: S.	19 T. 51N R. 20W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, none	
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.9213 Long.:	-92 54.7239 Datum: NAD 83
Soil Map Unit Name: B101A		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for t	his time of year? Yes No (If	f no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology		rcumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		lain any answers in Remarks.)
Summary of Findings - Attach site map s	, , ,	•
Hydrophytic Vegetation Present? Yes No		· · · ·
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?	Yes ○ No ●
Wetland Hydrology Present?	Within a wettands	100 0 110 2
Remarks: (Explain alternative procedures here or in a se	enarate report.)	
Hydrology Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:		econdary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all Surface Water (A1)		Surface Soil Cracks (B6) Drainage Patterns (B10)
	er-Stained Leaves (B9) atic Fauna (B13)	Drainage Patterns (B10) Moss Trim Lines (B16)
	Deposits (B15)	Dry Season Water Table (C2)
	rogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	lized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	ence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	ent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
	Muck Surface (C7)	Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Othe ☐ Sparsely Vegetated Concave Surface (B8)	er (Explain in Remarks)	Microtopographic Relief (D4) FAC-neutral Test (D5)
Sparsely vegetated contains surface (50)		TAC-neutral rest (D3)
Field Observations: Surface Water Present? Yes No De	epth (inches): 0	
	<u> </u>	
	epth (inches):0 Wetland Hydrolo	ogy Present? Yes ○ No •
(includes capillary fringe) Yes V No De	epth (inches):0	
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspections), if available	e:
Remarks:		

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: u-51n21w24-b6			
(Dist. 20)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3	0			Total Number of Dominant Species Across All Strata: 1 (B)
4	0			
5		$\overline{\Box}$		Percent of dominant Species
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 0.0% (A/B)
7		$\overline{\Box}$		Prevalence Index worksheet:
		: Total Cove	-	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)			•	0BL speci es x 1 =
1	0			FACW species 0 x 2 = 0
2	0			
3				FAC species $\underline{5}$ x 3 = $\underline{15}$
4				FACU species x 4 =400
5				UPL speci es $0 \times 5 = 0$
6.				Column Totals: <u>105</u> (A) <u>415</u> (B)
7				Provolonce Index P/A 2.052
		Total Cove		Prevalence Index = B/A = 3.952
Herb Stratum (Plot size: 5)		· rotar cove	•	Hydrophytic Vegetation Indicators:
	70	✓	FACU	Rapid Test for Hydrophytic Vegetation
O T !!			FACU	Dominance Test is > 50%
				Prevalence Index is ≤3.0 ¹
3. Taraxacum officinale	-		FACU	Morphological Adaptations ¹ (Provide supporting
4. Trifolium repens			FACU	data in Remarks or on a separate sheet)
5. Ranunculus repens			FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2		$\overline{\Box}$		
	_	Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)				groater than 6.25 it (iiii) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cove	r	
			•	
				Hydrophytic
				Vegetation
				Present? Yes ○ No ●
Remarks: (Include photo numbers here or on a separate s	heet.)			

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

Soil Sampling Point: u-51n21w24-b6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth	-	Matrix		-		dox Featı			-			
(inches)	Color (moist)	%	Color	(moist)	%_	Type ¹	Loc ²	Texture	Remarks		
0-15	10YR	3/3	90	10YR	3/6	10	C	М	Silt Loam			
15-20	10YR	5/3	70	10YR	5/6	30	С	М	Silt Loam			
		-										
			-	-	_	-			-			
		-	-	-					-			
			-									
		-										
		-	-	-	-							
										-		
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Rec	luced Matrix,	CS=Covere	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=N	Matrix		
Hydric Soil I	ndicators:								Indicators for Probl	lematic Hydric Soils: 3		
Histosol (A	A1)				yvalue Belov	w Surface	(S8) (LRR I	₹,		(LRR K, L, MLRA 149B)		
Histic Epip	edon (A2)			_	RA 149B)					ox (A16) (LRR K, L, R)		
☐ Black Histi	ic (A3)				n Dark Surfa					or Peat (S3) (LRR K, L, R)		
Hydrogen	Sulfide (A4)				my Mucky I)	Dark Surface (S7)			
	Layers (A5)				my Gleyed)			Surface (S8) (LRR K, L)		
	Below Dark S		11)		oleted Matri				Thin Dark Surface			
Thick Dark	k Surface (A	12)			lox Dark Su		7)			Masses (F12) (LRR K, L, R)		
	ck Mineral (S				oleted Dark		7)			ain Soils (F19) (MLRA 149B)		
	yed Matrix (S4)		∟ кес	lox Depress	sions (F8)				6) (MLRA 144A, 145, 149B)		
Sandy Rec									Red Parent Mater	ial (F21)		
Stripped M									Very Shallow Darl	k Surface (TF12)		
☐ Dark Surfa	ace (S7) (LR	R R, MLRA	. 149B)						Other (Explain in	Remarks)		
³ Indicators of	hydrophytic	vegetatio	n and wetla	and hydrolog	y must be p	oresent, ur	less distur	bed or probl	ematic.			
Restrictive La	ayer (if obs	erved):										
Type:												
Depth (inch	nes):								Hydric Soil Present?	Yes 🔾 No 💿		
Remarks:												
Kemarks.												
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