WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/C	ounty: St. Louis	Sampling Date:	14-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-5	50n19w17-e3
Investigator(s): SMR	Sec	ction, Township, Range: S.	17 T. 50N	R. 19W
Landform (hillslope, terrace, etc.): Mou		relief (concave, convex, no	-	<u>12.2</u> % / _ 7.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 49.	1515 Long.:	-92 46.4912 D	atum: NAD 83
Soil Map Unit Name: F137B			NWI classification: N/A	
Are climatic/hydrologic conditions on the	site typical for this time of year?	Yes ● No ○	f no, explain in Remarks.)	
	Hydrology significantly distu	•	rcumstances" present? Yes	● No ○
	Hydrology naturally problem		plain any answers in Remarks.)	
Summary of Findings - Attach		,		features, etc
	s O No O		, ,	•
Hydric Soil Present? Yes	s O No 💿	Is the Sampled Area	Yes ○ No ●	
-	s O No 💿	within a Wetland?	100 - 110 -	
Remarks: (Explain alternative procedur				
Hydrology Wetland Hydrology Indicators:			econdary Indicators (minimum of 2	required)
Primary Indicators (minimum of one red	juired; 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	г	Crayfish Burrows (C8)	(2-)
Sediment Deposits (B2) Drift deposits (B3)	Oxidized Rhizospheres alor		Saturation Visible on Aerial Imag	ery (C9)
Algal Mat or Crust (B4)	Presence of Reduced Iron Recent Iron Reduction in T	_	Stunted or Stressed Plants (D1) Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aguitard (D3)	
Inundation Visible on Aerial Imagery (B7)		` `	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)		(FAC-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes O	Depth (inches):	0		
Water Table Present? Yes O	O Depth (inches):	0		
Saturation Present? (includes capillary fringe) Yes N		Wetland Hydrol	ogy Present? Yes 🔾 No	•
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, prev	rious inspections), if availal	le:	
Remarks:				

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	ants			Sampling Point: u-50n19w17-e3
(8) -1 - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	0			Total Number of Dominant Species Across All Strata: 3 (B)
4	0			
5				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		- rotal core	'	0BL speci es x 1 =
1	0			FACW species 0 x 2 = 0
2				
3				FAC speciles 0 x 3 = 0
4				FACU species x 4 =400
5				UPL species $0 \times 5 = 0$
6				Column Totals: 100 (A) 400 (B)
7				Prevalence Index = B/A = 4.000
		Total Cove		
Herb Stratum (Plot size: 5)		otar cove	ı	Hydrophytic Vegetation Indicators:
1. Phleum pratense	40	✓	FACU	Rapid Test for Hydrophytic Vegetation
			FACU	☐ Dominance Test is > 50%
		<u>✓</u>	FACU	Prevalence Index is ≤3.0 ¹
		✓	FACU	Morphological Adaptations ¹ (Provide supporting
4. Tanacetum vulgare			FACU	data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				17.45.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
9				Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2				Conling/obrub Woody plants loss than 3 in DPH and
	100 =	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)		_		
1				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
				Trocata.
				<u> </u>
Remarks: (Include photo numbers here or on a separate s	neet.)			

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

Soil Sampling Point: u-50n19w17-e3

Depth	ription: (Des		tne deptn				firm the a	absence of indicators.)	
(inches)	Color (Matrix moist)	%	Color (moist)	lox Feature %	Type ¹	Loc ²	Texture	Remarks
0-6	10YR	4/3	100			.,,,,		Sandy Clay Loam	
6-13	10YR	4/4	100					Sandy Clay Loam	
0-13								Sandy Clay Loam	
								-	
		-							
¹ Type: C=Cor	ncentration. D	=Depletio	n. RM=Red	uced Matrix, CS=Covere	ed or Coated	Sand Grain	ns ² Loca	ition: PL=Pore Lining. M=Ma	atrix
Hydric Soil		•						_	matic Hydric Soils: 3
Histosol				Polyvalue Belov	v Surface (S	B) (LRR R.			
	ipedon (A2)			MLRA 149B)	(-	,			LRR K, L, MLRA 149B)
Black His	•			Thin Dark Surfa	ice (S9) (LR	R R, MLRA	149B)		(A16) (LRR K, L, R)
	n Sulfide (A4)			Loamy Mucky I	/lineral (F1)	LRR K, L)			r Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gleyed	Matrix (F2)			Dark Surface (S7)	
	Below Dark S	Surface (A	.11)	Depleted Matri:	(F3)				ırface (S8) (LRR K, L)
	rk Surface (A1		,	Redox Dark Su	face (F6)			Thin Dark Surface	
	uck Mineral (S			Depleted Dark	Surface (F7)				asses (F12) (LRR K, L, R)
	eyed Matrix (\$			Redox Depress	ions (F8)				n Soils (F19) (MLRA 149B)
	edox (S5)	34)							(MLRA 144A, 145, 149B)
	Matrix (S6)							Red Parent Materia	
	face (S7) (LRF	OD MIDA	\ 140D\					Very Shallow Dark	
								Other (Explain in R	emarks)
³ Indicators of	of hydrophytic	vegetatio	n and wetla	and hydrology must be p	resent, unle	ss disturbe	d or proble	ematic.	
Restrictive L	ayer (if obs	erved):							
Type: <u>r</u>	ock								
Depth (inc	ches): 13							Hydric Soil Present?	Yes O No 💿
Remarks:								1	
Kemarks.									