WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 13-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: w-50n19w7-c4
Investigator(s): SMR	Section, Township, Range: S.	7 T. 50N R. 19W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none	
Subregion (LRR or MLRA): LRR K	Lat.: 46 49.9021 Long.:	-92 47.8978 Datum: NAD 83
Soil Map Unit Name: B118A		NWI classification: PFOB
Are climatic/hydrologic conditions on the site typical	for this time of year? Yes No (If	no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	(cumstances" present? Yes No
Are Vegetation , Soil , or Hydrology		ain any answers in Remarks.)
Summary of Findings - Attach site ma		•
Hydrophytic Vegetation Present? Yes No	· · · · · · ·	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?	ves ● No ○
Wetland Hydrology Present? Yes No	within a wetiand?	
Remarks: (Explain alternative procedures here or i	n a separate report.)	
Hydrology		
Wetland Hydrology Indicators:	_Se	condary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; chec	k 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) Water Marks (B1)	Marl Deposits (B15)	Dry Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Crayfish Burrows (C8) 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)	
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 No •	Depth (inches):0	
Water Table Present? Yes No •	Depth (inches):0	v
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0 Wetland Hydrolo	gy Present? Yes No
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if available	e:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCING Harnes of pla	Sampling Point: w-50n19w7-c4		
(Diet size, 20	Absolute	Dominant Indicates	
Tree Stratum (Plot size: 30)	% Cover	Species? Status	Number of Dominant Species
1			That are OBL, FACW, or FAC: 3 (A)
2			Total Number of Dominant
3			Species Across All Strata: 3 (B)
4			_
5			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
6	0		- That Air OBE, Thow, of the
7	0		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	= Total Cover	Total % Cover of: Multiply by:
1	0		0BL speci es <u>100</u> x 1 = <u>100</u>
2			FACW species0 x 2 =0
			FAC speci es x 3 =0
3			FACU species x 4 =0
4			UPL species $0 \times 5 = 0$
5			Column Totals: 100 (A) 100 (B)
6			_
7		 = Total Cover	Prevalence Index = B/A = 1.000
Herb Stratum (Plot size: 5		- Total Cover	Hydrophytic Vegetation Indicators:
1 Carex lacustris	30	✓ OBL	Rapid Test for Hydrophytic Vegetation
2. Typha x glauca		✓ OBL	─ Operation Dominance Test is > 50%
		✓ OBL	Prevalence Index is ≤3.0 1
		OBL	Morphological Adaptations ¹ (Provide supporting
4. Scirpus cyperinus 5			data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
6			Indicators of hydric soil and wetland hydrology must
7			be present, unless disturbed or problematic.
8			Definitions of Vegetation Strata:
9			_
10			 Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11			at breast height (DBH), regardless of height.
12		Total Carrer	Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100 =	= Total Cover	greater than 3.28 ft (1m) 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.
1.	0 =	= Total Cover	_
			Hydrophytic
			Vegetation Present? Yes No No
			T TOOLIN.
Domanico (Tualudo maste acombane hace acombane hace	\		
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-50n19w7-c4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth							_		
(inches)	Color (mois	t)	Color (moist)	<u>%</u>	Type 1	Loc2	Texture	Remarks	
0-24	10YR 2/	/2 100					Muck		
				-			-		
				-					
				-					
		letion. RM=Red	uced Matrix, CS=Covere	d or Coate	d Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil I	ndicators:						Indicators for Proble	ematic Hydric Soils: 3	
✓ Histosol (A	A1)		Polyvalue Below	/ Surface (S8) (LRR R	.,		(LRR K, L, MLRA 149B)	
Histic Epip	edon (A2)		MLRA 149B)					x (A16) (LRR K, L, R)	
☐ Black Histi	ic (A3)		☐ Thin Dark Surfa					or Peat (S3) (LRR K, L, R)	
Hydrogen	Sulfide (A4)		Loamy Mucky N				Dark Surface (S7)		
Stratified I	Layers (A5)		Loamy Gleyed N					urface (S8) (LRR K, L)	
Depleted I	Below Dark Surfac	e (A11)	Depleted Matrix				Thin Dark Surface		
☐ Thick Dark	k Surface (A12)		Redox Dark Sur					lasses (F12) (LRR K, L, R)	
Sandy Mu	ck Mineral (S1)		Depleted Dark S		7)			in Soils (F19) (MLRA 149B)	
Sandy Gle	yed Matrix (S4)		Redox Depressi	ons (F8)) (MLRA 144A, 145, 149B)	
Sandy Red	dox (S5)						Red Parent Materia		
Stripped N	Matrix (S6)						Very Shallow Dark		
☐ Dark Surfa	ace (S7) (LRR R, N	/ILRA 149B)					Other (Explain in R		
³ Indicators of	hydronhytic yeae	tation and wetla	nd hydrology must be p	resent unl	ess disturb	ed or proble		iona no,	
			na nyarology mast be p	reserie, urii	ess distain	ed or proble	erriatio.		
	ayer (if observe	1):							
Type:							Hydric Soil Present?	Yes ● No ○	
Depth (inch	nes):						riyuric Son Fresent:	res © NO C	
Remarks:									
•									
•									
1									
i									
1									