WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22				City/County:	St. Louis		Samp	ling Date: 13-Sep-17
Applicant/Owner: Enbridge					State: MN	J	Sampling Point:	w-50n19w7-a1
Investigator(s): DPT				Section, T	ownship, Range:	s . 7	T. 50N	R. 19W
Landform (hillslope, terrace	, etc.): L	owland		Local relief (c	concave, convex, r	one): concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K		Lat.:	46 50.1260	Lone	ı.: .	-92 48.2737	Datum: NAD 83
Soil Map Unit Name: B148				40 30.1200		_	NWI classification	
				V-	es • No O	_		
Are climatic/hydrologic con		the site ty	pical for this time of y	/ear? Ye		•	no, explain in Rema	
Are Vegetation, So	ii □ ,	or Hydrol	ogy L significant	tly disturbed?	Are "Normal	Circ	umstances" present	_{:?} Yes ● No ○
Are Vegetation, So	il 🗌 ,	or Hydrol	ogy 🗌 naturally į	problematic?	(If needed,	expl	ain any answers in R	lemarks.)
Summary of Finding	js - Atta	ach site	map showing s	sampling p	oint location	ıs, t	transects, imp	ortant features, etc
Hydrophytic Vegetation Pro	esent?	Yes	No O					
Hydric Soil Present?		Yes 💿	No O		e Sampled Area in a Wetland?	Υ	es 💿 No 🔾	
Wetland Hydrology Present	t?	Yes 💿	No O					
Remarks: (Explain alterna	ative proce	dures here	or in a separate repo	ort.)				
Hydrology								
Wetland Hydrology Indicat	horsi							
Primary Indicators (minim		roquirod	chack all that apply)			Sec	ondary Indicators (mir	
Surface Water (A1)	uni oi one	<u>requirea,</u>	Water-Stained Lea	avos (PO)		H	Surface Soil Cracks (E Drainage Patterns (B1	
✓ High Water Table (A2)			Aquatic Fauna (B1				Moss Trim Lines (B16	
Saturation (A3)			Marl Deposits (B1				Dry Season Water Ta	•
Water Marks (B1)			Hydrogen Sulfide				Crayfish Burrows (C8)	
Sediment Deposits (B2)			Oxidized Rhizosph	neres along Living	g Roots (C3)		Saturation Visible on	Aerial Imagery (C9)
Drift deposits (B3)			Presence of Reduc	ced Iron (C4)			Stunted or Stressed P	, ,
Algal Mat or Crust (B4)			Recent Iron Redu	ction in Tilled Soi	ils (C6)	~	Geomorphic Position	` '
☐ Iron Deposits (B5)		(D.7)	Thin Muck Surface	• •			Shallow Aquitard (D3)	
Inundation Visible on AeriSparsely Vegetated Conca	0 ,		Other (Explain in I	Remarks)			Microtopographic Reli	
sparsely vegetated conta	ive surface	(DO)				V	FAC-neutral Test (D5)	Į.
Field Observations:								
Surface Water Present?	Yes	No O	Depth (inches):	6	-			
Water Table Present?	Yes	No O	Depth (inches):	0				. ● No ○
Saturation Present? (includes capillary fringe)	Yes 💿	No O	Depth (inches):	0	Wetland Hyd	rolog	y Present? Yes	;
Describe Recorded Data (s	tream gau	ge, monito	oring well, aerial photo	os, previous in	spections), if avai	lable	::	
Remarks:								
Kemarks.								

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCING Harnes of pla	Sampling Point: w-50n19w7-a1				
- (Plot size: 30	Absolute	Dominant Indica			
Tree Stratum (Plot size: 30)	% Cover	Species? Statu	Number of Dominant Species		
1		Ц —	That are OBL, FACW, or FAC:4(A)		
2		Ц	Total Number of Dominant		
3	0		Species Across All Strata: 4 (B)		
4	0				
5	0		Percent of dominant Species That Are OBL_FACW_or_FAC: 100.0% (A/B)		
6			That Are OBL, FACW, or FAC:100.0% (A/B)		
7			Prevalence Index worksheet:		
		Total Cover	Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15)		_	0BL speci es 100 x 1 = 100		
1		□ —	FACW species x 2 =		
2			FAC speciles x 3 =		
3	0	Ц	FACU species 0 x 4 = 0		
4	0	Ц	UPL species $0 \times 5 = 0$		
5	0				
6	0		Column Totals: 100 (A) 100 (B)		
7	0		Prevalence Index = B/A = 1.000		
(Plot size: 5	0 =	Total Cover	Hydrophytic Vegetation Indicators:		
Herb Stratum (Plot size: 5		_	Rapid Test for Hydrophytic Vegetation		
1 Scirpus cyperinus		✓ OBL	Dominance Test is > 50%		
2. Carex lacustris	30	✓ OBL	✓ Prevalence Index is ≤3.0 ¹		
3. Typha x glauca	30	✓ OBL	Morphological Adaptations ¹ (Provide supporting		
4. Calamagrostis canadensis		OBL	data in Remarks or on a separate sheet)		
5	0		Problematic Hydrophytic Vegetation ¹ (Explain)		
6	0				
7	0		¹ Indicators of hydric soil and wetland hydrology must		
8			be present, unless disturbed or problematic.		
9			Definitions of Vegetation Strata:		
10			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
11			at breast height (DBH), regardless of height.		
12					
		Total Cover	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall		
Woody Vine Stratum (Plot size: _30)			grouter than 6.25 K (TH) 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 Cover			
			Hydrophytic		
			Vegetation Present? Yes No		
Remarks: (Include photo numbers here or on a separate sh	eet)				
remarks, (andude photo numbers here or on a separate sh	udi.j				

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

Soil Sampling Point: w-50n19w7-a1

Depth		Matrix	•			dox Feat			absence of indicators.)			
(inches)	Color (%	Color (ı		<u>%</u>	Type 1	Loc2	Texture	Rema	rks	
0-9	10YR	4/1	90	10YR	4/6	10	С	M	Sandy Loam			
9-20	10YR	5/1	80	10YR	5/6	20	С	M	Sandy Clay Loam			
-									-	-		
-								-	-			
					-					-		
					-							
						_						
										-		
1 Type: C. Cop.	contration D	Doplotic	n DM Dod	used Matrix (°C Cover	od or Coat	od Sand Cr	nine 2l ne	ation: PL=Pore Lining. M=	Motrix		
		=Depletic	JII. KIVI=Keut	iceu iviati ix, c	3=Cover	eu oi coat	eu sanu Gi	all is ~LUC			2	
Hydric Soil I Histosol (A				Dolor	مام عبراد	w Surface	(S8) (LRR I)	Indicators for Prob			
_	pedon (A2)				аше вею \ 149В)	w Surface	(30) (LKK I	ζ,	2 cm Muck (A10)			
Black Histi				Thin	Dark Surf	ace (S9) ((LRR R, MLF	RA 149B)		lox (A16) (LRR K,		
	Sulfide (A4)			Loam	y Mucky	Mineral (F	1) LRR K, L))		t or Peat (S3) (LR	R K, L, R)	
_	Layers (A5)					Matrix (F2	2)		Dark Surface (ST)	
Depleted !	Below Dark S	Surface (A	11)		eted Matri				Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)			
☐ Thick Darl	k Surface (A1	12)				ırface (F6)			☐ Iron-Manganese Masses (F12) (LRR K, L)			
Sandy Mu	ck Mineral (S	61)		_		Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	eyed Matrix (S	S4)		∟ Redo	x Depress	sions (F8)				6) (MLRA 144A,		
Sandy Red									Red Parent Material (F21)			
	Matrix (S6)								Very Shallow Da	k Surface (TF12)		
☐ Dark Surfa	ace (S7) (LRF	R R, MLRA	A 149B)						Other (Explain in	Remarks)		
3.	hydrophytic	vegetatio	n and wetla	nd hydrology	must be	present, ur	nless disturl	oed or probl	ematic.			
Indicators of	riyuropriyuc											
³ Indicators of		erved):										
		erved):								V (•)	No 🔾	
Restrictive La	ayer (if obs	erved):							Hydric Soil Present?	Yes 💿		
Restrictive La	ayer (if obs	erved):							Hydric Soil Present?	Yes 🥌		
Restrictive La Type: Depth (inch	ayer (if obs	erved):							Hydric Soil Present?	Yes 🥌		
Restrictive La Type: Depth (inch	ayer (if obs	erved):							Hydric Soil Present?	res ⊚		
Restrictive La Type: Depth (inch	ayer (if obs	erved):							Hydric Soil Present?	res ©		
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Restrictive La Type: Depth (inch	ayer (if obs	erved):							Hydric Soil Present?	res ©		