WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County:	St. Louis		Samplin	ng Date: 11-Sep-17
Applicant/Owner: Enbridge				State: MN	J _	Sampling Point:	w-51n20w20-a4
Investigator(s): PJK			Section, To	ownship, Range:	s. 20	T. 51N	R. 20W
Landform (hillslope, terrace, etc.):	Lowland	ı	Local relief (co	oncave, convex, n	one):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 4	16 52.8848	Long	j.: -92	2 53.1113	Datum: NAD 83
Soil Map Unit Name: B148A			· · ·			NWI classification:	PFO4B
Are climatic/hydrologic conditions or	the cite ty	sical for this time of ve	~~? Ye	s • No O	_	, explain in Remarks	
Are Vegetation, Soil	, or Hydrolo		y disturbed?		•	, explain in Remarks	yes ● No ○
			-			•	
Are Vegetation, Soil	, or Hydrold			,	-	any answers in Rei	•
Summary of Findings - Att			ampling p	oint location	is, tra	ansects, impo	rtant reatures, etc
Hydrophytic Vegetation Present?	Yes	No O	Ts the	Sampled Area			
Hydric Soil Present?	Yes	No O		n a Wetland?	Yes	● No ○	
Wetland Hydrology Present?	Yes 💿	No O					
Remarks: (Explain alternative proc	edures here	or in a separate report	t.)				
No digging near road, potential util	ities.						
I							
Hydrology							
Wetland Hydrology Indicators:							
* * *		-llll 4l4l A				idary Indicators (minim	
Primary Indicators (minimum of on	<u>e requirea;</u>					urface Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leave	, ,			rainage Patterns (B10)	
☐ High Water Table (A2)		Aquatic Fauna (B13)				loss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				ry Season Water Table	e (C2)
Water Marks (B1)		Hydrogen Sulfide O	dor (C1)			rayfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospher	res along Living	Roots (C3)		aturation Visible on Ae	0 3 . ,
Drift deposits (B3)		Presence of Reduce	ed Iron (C4)			tunted or Stressed Plai	nts (D1)
Algal Mat or Crust (B4)		Recent Iron Reducti	ion in Tilled Soil	s (C6)	✓ G	eomorphic Position (D	2)
☐ Iron Deposits (B5)		Thin Muck Surface ((C7)		SI	hallow Aquitard (D3)	
Inundation Visible on Aerial Imagery	(B7)	Other (Explain in Re	emarks)		M	licrotopographic Relief	(D4)
Sparsely Vegetated Concave Surface	e (B8)				✓ F	AC-neutral Test (D5)	
Field Observations:							
Surface Water Present? Yes	No 💿	Depth (inches):	0				
Water Table Present? Yes	No 💿	Depth (inches):	0				
Saturation Present? (includes capillary frings) Yes		Depth (inches):	0	Wetland Hydr	rology	Present? Yes	● No ○
(Includes capillally Intrige)							
Describe Recorded Data (stream ga	uge, monito	ring well, aerial photos	s, previous ins	spections), if avail	lable:		
Demonto							
Remarks:							

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pic	ants			Sampling Point: w-51n20w20-a4
(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: (A)
2	0			T. I.W. J. C. C. C. C.
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				(-,
5				Percent of dominant Species
6		\Box		That Are OBL, FACW, or FAC: 100.0% (A/B)
				Prevalence Index worksheet:
7				
Sapling/Shrub Stratum (Plot size: 15		= Total Cove	r	Total % Cover of: Multiply by:
1	0			OBL speci es 30 x 1 = 30
2				FACW species
				FAC speciles x 3 =0
3				FACU species x 4 =0
4				UPL species $0 \times 5 = 0$
5				Col umn Total s: 80 (A) 130 (B)
6				Column locals. 80 (A) 130 (P)
7	0			Prevalence Index = B/A = 1.625
Herb Stratum (Plot size: 5)	0 =	Total Cove	r	Hydrophytic Vegetation Indicators:
nero Stratum (1 lot 3/26.				Rapid Test for Hydrophytic Vegetation
1 Phalaris arundinacea	40	✓	FACW	✓ Dominance Test is > 50%
2. Typha x glauca	10		OBL	
3. Carex lacustris	20	✓	OBL	✓ Prevalence Index is ≤3.0 ¹
4. Solidago gigantea	_		FACW	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
E Omesles consibilis			FACW	1 —
0				Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9	0			Definitions of Vegetation Strata.
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
12				Carling/about Washinglants less than 2 in DDU and
	80 =	= 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 6.20 it (iiii) taii
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.
4.		= Total Cove		l noight.
	=	= Total Cove	Γ	
				Hydrophytic Vegetation
				Present? Yes • No
Remarks: (Include photo numbers here or on a separate sh	neet)			
Remarks: (Include photo numbers here or on a separate si	ieet.)			

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

Soil Sampling Point: w-51n20w20-a4

Depth	Matrix			dox Features		-	
(inches)	Color (moist)	<u> </u>	olor (moist)		Loc ²	Texture	Remarks
						-	
					-		
		-	-	-			
1 Tuno: C. Con	contration D. Donlation	DM Dodused M	latrix CS Covers	od or Coated Sand Cra	ins 21 oco	ition: PL=Pore Lining. M=Ma	ntriv.
		RIVI=Reduced IV	iatrix, C3=C0vere	ed of Coated Salid Gra	IIIS ~LUCA		
Hydric Soil 1			1	0 ((00) (100 0		Indicators for Proble	matic Hydric Soils: 3
Histosol (•	L	J Polyvalue Belov MLRA 149B)	w Surface (S8) (LRR R	1	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		,	ace (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black Hist			_	Mineral (F1) LRR K, L)	,	5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed I			Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)	, –	Depleted Matrix				ırface (S8) (LRR K, L)
	Below Dark Surface (A11) _	Redox Dark Sur			Thin Dark Surface	(S9) (LRR K, L)
	k Surface (A12)		Depleted Dark			☐ Iron-Manganese M	asses (F12) (LRR K, L, R)
	uck Mineral (S1)		Redox Depress			Piedmont Floodplai	n Soils (F19) (MLRA 149B)
_	eyed Matrix (S4)		Tredox Depress	10113 (1 0)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re						Red Parent Materia	l (F21)
	Matrix (S6)					Very Shallow Dark	Surface (TF12)
☐ Dark Surf	face (S7) (LRR R, MLRA 1	49B)				✓ Other (Explain in R	emarks)
³ Indicators o	f hydrophytic vegetation	and wetland hyd	rology must be p	resent, unless disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):						
Type:	, (0000.100).						
Depth (inc	hes).					Hydric Soil Present?	Yes ● No ○
			_				
Remarks:							
No digging n	ear road. Potential uti	lities. Soils ass	umed hydric ba	ased on vegetation.			