WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	St. Louis	Sampli	Sampling Date: 13-Sep-17	
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-50n20w2-a4	
Investigator(s): PJK		Section, T	ownship, Range: S. 2	T. 50N	R. 20W	
Landform (hillslope, terrace, etc.): Lowland		Local relief (c	oncave, convex, none):	concave	Slope: 0.0 % / 0.0	
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.527	Long.: -9	2 49.7983	Datum: NAD 83	
Soil Map Unit Name: B127B		8		NWI classification:	N/A	
Are Vegetation , Soil , or Hydrolog Are Vegetation , Soil , or Hydrolog Summary of Findings - Attach site	gy 🗌 naturally	tly disturbed? problematic? sampling p	(If needed, explain	nstances" present? n any answers in Re ansects, impo	emarks.)	
Hydric Soil Present? Yes 💿	No () No () No ()		e Sampled Area n a Wetland? Yes	5 • No 🔿		
Remarks: (Explain alternative procedures here on No digging on pipeline, active buried utilities.	or in a separate repo	ort.)				

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)				
Primary Indicators (minimum of one required;	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)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)				
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)						
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 O No O	Depth (inches): 0					
Water Table Present? Yes O No 🖲	Depth (inches):0	ydrology Present? Yes 💿 No 🔾				
Saturation Present? Yes O No O	Wetland Hy Depth (inches): 0	ydrology Present? Yes 🔍 No 🔾				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

VEGETATION - Use scientific names of plants

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	Absolute		Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30</u>)	% Cover	species	Status	Number of Dominant Species		
1				That are OBL, FACW, or FAC:6(A)		
2				Total Number of Dominant		
3				Species Across All Strata:6 (B)		
4				Percent of dominant Species		
5				That Are OBL, FACW, or FAC: 100.0% (A/B)		
6 7	0			Brouplance Index workshoot		
1		= Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15)				OBL species 50 x 1 = 50		
1. Alnus incana	20	\checkmark	FACW	FACW species $60 \times 2 = 120$		
2	0			FAC species $15 \times 3 = 45$		
3						
4	0					
5	0					
6	0			Column Totals: <u>125</u> (A) <u>215</u> (B)		
7	0			Prevalence Index = $B/A = 1.720$		
Herb Stratum (Plot size: <u>5</u>)	=	= Total Cover		Hydrophytic Vegetation Indicators:		
	10		EA CIA/	Rapid Test for Hydrophytic Vegetation		
1. Phalaris arundinacea 2. Calamagrostis canadensis	40		FACW	✓ Dominance Test is > 50%		
O Benleum conillero	<u>15</u> 15	\checkmark	OBL FAC	V Prevalence Index is \leq 3.0 ¹		
	15		OBL	Morphological Adaptations ¹ (Provide supporting		
	15		OBL	data in Remarks or on a separate sheet)		
	-		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
6. <u>Typna x glauca</u> 7				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	0			Conting/objects Mandy plants less than 2 in DDU and		
	105 = 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)						
1	0			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
2	0					
3	0			Woody vine - All woody vines greater than 3.28 ft in		
4	-	- Total Cavar		height.		
		= Total Cover				
				Hydrophytic		
				Vegetation Present? Yes • No ·		
Remarks: (Include photo numbers here or on a separate she	et.)					

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

US Army Corps of Engineers

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix			lox Features	1	. <u> </u>	
(inches)	Color (moist)		Color (moist)	% Type	¹ Loc ²	Texture	Remarks
				·			
				·			
		. <u> </u>		·			
				- <u>-</u> -			
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				· · · · · · · · · · · · · · · · · · ·			
				·			
¹ Type: C=Cor	centration. D=Depletion	n. RM=Reduce	d Matrix, CS=Covere	ed or Coated Sand (Grains ² Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil							
Histosol				v Surface (S8) (LRR	D	_	ematic Hydric Soils: ³
	ipedon (A2)		MLRA 149B)		κ,	2 cm Muck (A10) ((LRR K, L, MLRA 149B)
_			Thin Dark Surfa	ace (S9) (LRR R, M	LRA 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
Black His				Aineral (F1) LRR K,		5 cm Mucky Peat o	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed		_)	Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)		Depleted Matrix			Polyvalue Below Si	urface (S8) (LRR K, L)
	Below Dark Surface (A1	1)	Redox Dark Su			Thin Dark Surface	(S9) (LRR K, L)
Thick Da	rk Surface (A12)					Iron-Manganese M	lasses (F12) (LRR K, L, R)
Sandy M	uck Mineral (S1)		Depleted Dark				in Soils (F19) (MLRA 149B)
Sandy GI	eyed Matrix (S4)		Redox Depress	ions (F8)) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)					Red Parent Materia	
Stripped	Matrix (S6)					Very Shallow Dark	
Dark Sur	face (S7) (LRR R, MLRA	149B)				Other (Explain in R	
						<u> </u>	(enders)
Indicators d	f hydrophytic vegetation	and wetland	nyarology must be p	resent, uniess aistu	rbed or proble		
Restrictive L	.ayer (if observed):						
Туре:							\sim
Depth (ind	ches):					Hydric Soil Present?	Yes $ullet$ No $igodot$
Remarks:							
	n pipeline, active bur			luia lagonal que vos	atation and		
No algging o	in pipeline, active bui	ieu utilities.	solis assumed nyo	unc based on veg	etation and	nyarology.	