WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	St. Louis	Samplii	ng Date: 13-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-50n19w7-a2
Investigator(s): PJK		Section, T	ownship, Range: S. 1	T. 50N	R. 20W
Landform (hillslope, terrace, etc.):	Mound	Local relief (c	concave, convex, none):	convex	Slope: 57.7 % / 30.0 °
Subregion (LRR or MLRA): LRR K	Lat.:	46 50.604	Long.: -92	2 48.1282	Datum: NAD 83
Soil Map Unit Name: B130D			1	WI classification:	N/A
Are Vegetation , Soil Are Vegetation , Soil Summary of Findings - At	, or Hydrology 🗌 naturally j	tly disturbed? problematic? sampling p	Are "Normal Circun (If needed, explain point locations, tra	any answers in Re	•
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ○ No ● Yes ○ No ● Yes ○ No ●		e Sampled Area in a Wetland? Yes	○ _{N0}	
Remarks: (Explain alternative pro No digging on pipeline, active bur		ort.)			

Hydrology

Wetland Hydrology Indicators:						
1 57	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)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)				
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 O	Depth (inches):0	drology Present? Yes 🔿 No 🖲				
Saturation Present? Yes O No O Depth (inches): 0 Wetland Hy		drology Present? Yes 🔾 No 🖲				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

VEGETATION - Use scientific names of plants

vegeration - use scientific names of plai	Sampling Point: u-50n19w7-a2			
	Absolute	Dominant	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: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC:(A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		Total Cover		Total % Cover of: Multiply by: OBL species 5 x 1 = 5
1	0			
2	0			FACW species $5 \times 2 = 10$
3				FAC species $0 \times 3 = 0$
4				FACU species $90 \times 4 = 360$
5				UPL species $0 \times 5 = 0$
6	0			Column Totals: <u>100</u> (A) <u>375</u> (B)
7				Prevalence Index = $B/A = 3.750$
Herb Stratum (Plot size: 5)	0 =	Total Cover		Hydrophytic Vegetation Indicators:
	-	_		Rapid Test for Hydrophytic Vegetation
1. Tanacetum vulgare			FACU	Dominance Test is > 50%
2. Cirsium arvense	40		FACU	Prevalence Index is \leq 3.0 ¹
3. Phleum pratense	10		FACU	Morphological Adaptations ¹ (Provide supporting
4. Lotus corniculatus			FACU	data in Remarks or on a separate sheet)
5. Solidago gigantea	_		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
6. Calamagrostis canadensis			OBL	1 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				a breast height (DDH), regardless of height.
12		Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)				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				height.
	=	Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes V 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.

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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix			dox Featu	res	1 2		Barrada
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
							-	-
				-				-
				-				
				·				
			-	-	-	-		
								8
								,
¹ Type: C=Cor	ncentration. D=Depletion	. RM=Reduced N	Matrix, CS=Covere	ed or Coate	d Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=N	latrix
Hydric Soil	Indicators:						Indicators for Probl	ematic Hydric Soils : ³
Histosol (Г	Polyvalue Belov	w Surface (S8) (LRR F	2.		
	ipedon (A2)		MLRA 149B)					(LRR K, L, MLRA 149B)
Black His] Thin Dark Surfa	ace (S9) (L	.RR R, MLR	A 149B)		ox (A16) (LRR K, L, R)
	n Sulfide (A4)	Γ	Loamy Mucky N				5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
			Loamy Gleyed				Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)		Depleted Matrix				Polyvalue Below S	Surface (S8) (LRR K, L)
	Below Dark Surface (A1	1) _	Redox Dark Su				Thin Dark Surface	e (S9) (LRR K, L)
	rk Surface (A12)		-		•		Iron-Manganese	Masses (F12) (LRR K, L, R)
Sandy Mu	uck Mineral (S1)		Depleted Dark)			ain Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)		Redox Depress	ions (F8)				5) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red Parent Mater	
Stripped	Matrix (S6)							
	face (S7) (LRR R, MLRA	149B)					Very Shallow Dark	
							Other (Explain in	Remarks)
"Indicators o	of hydrophytic vegetation	and wetland hyd	drology must be p	present, un	ess disturb	ed or proble	ematic.	
Restrictive L	.ayer (if observed):							
Туре:								
Depth (inc	ches):						Hydric Soil Present?	Yes 🔿 No 🖲
Remarks:								
No digging o	n pipeline, active bur	ied utilities. So	ils assumed noi	n-hydric b	ased on v	vegetation	and hydrology.	