WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 09/29/14	
Applicant:		Enbridge								County: <u>Pennington</u>	
Investigators:		BJC/RAJ			_Subregio	•	or LRR):	MLRA 56		State: <u>MN</u>	
Soil Unit:	155A						Classification:				
	Depression			Local Relief: CC Sample Point: w-153n44w11-a2							
	0 - 2%		Latitude: 48.		Longitude:			Datum:			
		onditions on the sit		•	ar? (If no, exp	1			□ No	Section:	
Are Vegetatio		I □, or Hydrology	•	•		Are	e normal circum	-	esent?	Township:	
Are Vegetatio		I □, or Hydrology	□aturally p	roblematic?			⊠ Yes	□ No		Range: Dir:	
	SUMMARY OF FINDINGS										
Hydrophytic Vegetation Present? Yes											
Wetland Hydr			Yes							nt Within A Wetland? Yes	
Remarks:	Remarks: The wetland is a shallow marsh dominated by hybrid cattail and lake sedge. It is located in a roadside ditch along the south side of County Road 61.										
HYDROLOGY	1										
Wetland Hvo	droloav Ind	icators (Check al	l that apply: I	Ainimum of or	ne primarv	or two s	econdary requir	ed):			
Primary:					io printary		boomaary roqui	00)1	Secondary:		
	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface Soil Cracks	
A2 - High Water Table					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydro					B10 - Drainage Patterns	
	B1 - Water M B2 - Sedimer				C2 - Dry So		ter Table spheres on Living	Poots (not till		C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows	
	B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese					C9 - Saturation Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorphic Position	
	B5 - Iron Dep				Other (Exp					D5 - FAC-Neutral Test	
	B7 - Inundatio	on Visible on Aerial In	nagery		、 ·	,				D7 - Frost-Heaved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves									
Field Observ	ations:										
Surface Wate	er Present?	Yes 🛛	Dep	th:	(in.)			Wotland H	vdrology	Present? Y	
Water Table I	Present?	Yes 🗆	Dep	th:	(in.)			Wetland H	iyurology i		
Saturation Pro	esent?	Yes 🛛	Dep	th:	(in.)						
Describe Reco	orded Data (stream gauge, mon	itoring well a	erial photos pr	evious insr	ections)	if available:				
Remarks:	vvetiand ny	drology indicators	are present.								
SOILS											
	otion (Descr	ibe to the depth ne	oded to doc	umont the indi	icator or co	onfirm th	a absonce of in	dicatore)			
(Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)											
		Matrix				Mottl	29				
Depth (In.)		Color (Moist)	%	Color (Moist)	%	Туре	Location	Texture	Remarks	
						/0	Туре				
		1									

NPCS Hydric Soil Field Indicators (check here if indicators are not present).

NRCS Hydr	ic Soil Field Indicators (check here	if indicators are not present):	
	 A1- Histosol A2 - Histic Epipedon A3 - Black Histic A4 - Hydrogen Sulfide A5 - Stratified Layers (LRR F) A9 - 1 cm Muck (LRR FGH) A11 - Depleted Below Dark Surface A12 - Thick Dark Surface S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) 	 S5 - Sandy Redox S6 - Stripped Matrix F1 - Loamy Mucky Mineral F2 - Loamy Gleyed Matrix F3 - Depleted Matrix F6 - Redox Dark Surface F7 - Depleted Dark Surface F8 - Redox Depressions F16 - High Plains Depressions (ML 	Indicators for Problematic Soils1□A9 - 1 cm Muck (LRR I, J)□A16 - Coast Prairie Redox (LRR F, G, H)□S7 - Dark Surface (LRR G)□F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)□F18 - Reduced Vertic□TF2 - Red Parent Material□TF12 - Very Shallow Dark Surface☑Other (Explain in Remarks)
	S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix		¹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer	Туре:	Depth:	Hydric Soil Present? Y
Remarks:	Soils could not be sampled due to the l vegetation.	ocation within a roadside ditch. Soils	s are assumed hydric based on landscape position and dominance of hydrophytic

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VEGETATIO		e non-native	species.)				
Tree Stratum	(Plot size: 30 ft. radius)	0/ Cover	Dominant	Ind Status	Dominance Test Worksheet		
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status			
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)		
3.					Number of Dominant Species that are OBE, FACW, of FAC(A)		
					Total Number of Deminent Species Aerose All Strates 2 (P)		
<u>4.</u>					Total Number of Dominant Species Across All Strata: 2 (B)		
5.							
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
7.							
8.					Prevalence Index Worksheet		
9.					Total % Cover of: Multiply by:		
10.					OBL spp. 65 X 1 = 65		
	Total Cover =	0			FACW spp. 30 x $2 =$ 60 FAC spp. 5 x $3 =$ 15 FACU spp. 0 x $4 =$ 0		
					FAC spp. 5 X $3 = 15$		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$		
1.					UPL spp. 0 $X 5 = 0$		
2.							
3.					Total <u>100</u> (A) <u>140</u> (B)		
4.							
5.					Prevalence Index = B/A = <u>1.400</u>		
6.							
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.					X Dominance Test is > 50%		
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *		
					Morphological Adaptations (Explain) *		
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *		
1.	Typha X glauca	35	Y	OBL			
2.	Carex lacustris	30	Y	OBL	* Indicators of hydric soil and wetland hydrology must be		
3.	Phalaris arundinacea	15	N	FACW	present, unless disturbed or problematic.		
4.	Calamagrostis canadensis	15	N	FACW	Definitions of Vegetation Strata:		
5.	Petasites frigidus	5	N	FAC			
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast		
7.					height (DBH), regardless of height.		
8.							
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.		
10.							
11.							
12.					Herb - All herbaceous (non-woody) plants, regardless of size.		
13.							
14.							
14.					Woody Vines - All woody vines, regardless of height.		
10.	Total Cover =	100					
		100					
	ratum (Plot size: 30 ft. radius)						
1. 2							
2.					Hydrophytic Verstation Present2		
3.					Hydrophytic Vegetation Present? Y		
5.							
4.	Total Ocura	0					
Total Cover = 0							
Remarks: The wetland sample point is dominated by hybrid cattail and lake sedge.							
Additional Remarks:							