WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 09/26/14		
Applicant:		Enbridge								County: Pennington		
Investigators							or LRR):	MLRA 56	State: MN			
Soil Unit:	169A			_			Classification	:				
Landform:	Depression				cal Relief:					Sample Point: w-153n44w3-a2		
Slope (%):	0 - 2%		Latitude: 48.10			-96.2926		Datum:				
		nditions on the site			Ir? (If no, exp				□ No	Section:		
Are Vegetation		□, or Hydrology	•			Are	normal circur	•	esent?	Township:		
Are Vegetation			□aturally pro	olematic?			Yes	□ No		Range: Dir:		
SUMMARY OF FINDINGS												
				Yes			Hydric Soils Present?					
Wetland Hyd			Yes		•		1 10 1			nt Within A Wetland? Yes		
Remarks:	parameters		ominated by r	neadow willo	w and rec	-osier dog	gwood. It is io	cated in a d	epression s	surrounded by hardwood swamp. All wetland		
HYDROLOG'	Υ											
Wetland Hy	drology Ind	icators (Check all t	that apply: Mi	nimum of on	e primary	or two sed	condary requi	ired):				
Primary:		(0.1001.0			о р у				Secondary:	1		
	A1 - Surface				B11 - Salt (B6 - Surface Soil Cracks		
	A2 - High Wa				B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturation B1 - Water Ma				C1 - Hydro C2 - Dry So					B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen						heres on Living	Roots (not till	• 🗆	C8 - Crayfish Burrows		
	B3 - Drift Dep	•				nce of Redu		, , , , , , , , , , , , , , , , , , , ,	`	C9 - Saturation Visible on Aerial Imagery		
	B4 - Algal Ma					luck Surfac	e			D2 - Geomorphic Position		
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neutral Test		
		n Visible on Aerial Ima ained Leaves	agery							D7 - Frost-Heaved Hummocks (LRR F)		
	ba - water-or	allieu Leaves										
Field Observ	vations:											
Surface Wate		Yes □	Depth:		(in.)							
Water Table		Yes \square	Depth:		(in.)			Wetland H	lydrology	Present? Y		
Saturation Pr		Yes \square	Depth:		(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
				al photos, pre	evious insp	ections), if	f available:					
Remarks:		stream gauge, monitor drology indicators a		al photos, pre	evious insp	ections), if	f available:					
Remarks:				al photos, pre	evious insp	ections), if	f available:					
Remarks:	Wetland hy	drology indicators a	are present.			·		ndicators)				
Remarks: SOILS Profile Descri	Wetland hydiption (Descri	drology indicators a	are present.	nent the indi	cator or co	onfirm the	absence of ir					
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Remarks: SOILS Profile Descri (Type: C=Concen	Wetland hydiption (Descri	be to the depth need to the Reduced Material	are present.	nent the indic	cator or co Grains; Loca	onfirm the ion: PL=Por Mottles	absence of in re Lining, M=Mati		Texture	Remarks		
Remarks: SOILS Profile Descri	Wetland hydiption (Descri	be to the depth need to the depth need to the depth need to Matrix Color (Moist)	eded to documents, CS=Covered	nent the indi	cator or co Grains; Loca	onfirm the ion: PL=Por	absence of ir	rix)				
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-4	Wetland hydination (Description (Description, Dependent of the Deputition) Hue_10YR	be to the depth need to the de	eded to document trix, CS=Covered %	nent the indic	cator or co Grains; Loca	onfirm the ion: PL=Por Mottles	absence of in re Lining, M=Mati	rix)	MMI	Remarks Loamy mineral component		
Remarks: SOILS Profile Descri (Type: C=Concent) Depth (In.) 0-4 4-16	Wetland hydiption (Descriptration, D=Deplementation, D=Deplementat	be to the depth need to the de	eded to documentrix, CS=Covered % 100 100	nent the indicated Sand Color (I	cator or co Grains; Locat Moist)	onfirm the ion: PL=Por Mottles	absence of ir re Lining, M=Mat s Type	Location	MMI LFS			
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-4	Wetland hydination (Description (Description, Dependent of the Deputition) Hue_10YR	be to the depth need to the de	eded to document trix, CS=Covered %	nent the indic	cator or co Grains; Loca	onfirm the ion: PL=Por Mottles	absence of in re Lining, M=Mati	rix)	MMI			
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-4 4-16 16-22 NRCS Hydr	Wetland hydrogen iption (Descrintration, D=Deplementation, D=Deple	be to the depth need to the de	eded to document with the second seco	Color (I Hue_2.5Y	cator or co Grains; Local Moist)	Mottles	absence of ir re Lining, M=Mat s Type	Location	MMI LFS FS	Loamy mineral component for Problematic Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concent) Depth (In.) 0-4 4-16 16-22	Wetland hydrogen iption (Description (Description, D=Deplementation, D=Deplementatio	be to the depth need to the detection, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 6/2 Indicators (cheed to the depth need to the	eded to document with the second seco	Color (I Hue_2.5Y	cator or co Grains; Local Moist) 6/6 ot presentedox	Mottles	absence of ir re Lining, M=Mat s Type	Location	MMI LFS FS Indicators 1 A9 - 1 cm M	for Problematic Soils¹ Muck (LRR I, J)		
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-4 4-16 16-22 NRCS Hydri	Hue_10YR Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth need to the de	weded to document trix, CS=Covered 100 100 95 eck here if independent in the control of the cont	Color (I Hue_2.5Y icators are n S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	Moist) 6/6 ot presented watrix lucky Mineraleleyed Matrix	Mottles 5 t):	absence of ir e Lining, M=Mat s Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Loamy mineral component for Problematic Soils¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Jurface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w3-a2					
					•					
VEGETATION	(Species identified in all uppercase	are non-native	species.)							
Tree Stratum (Plot size: 30 ft. radius)									
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC:4(A)					
3.										
4.					Total Number of Dominant Species Across All Strata:4(B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)					
7.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					OBL spp. 70 x 1 = 70					
	Total Cover				FACW spp. 95 $x 2 = 190$					
					OBL spp. 70					
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp					
1.	Salix petiolaris	50	Υ	OBL	UPL spp 0					
2.	Comus alba	20	Υ	FACW						
3.	Populus tremuloides	5	N	FAC	Total 175 (A) 290 (B)					
4.										
5.					Prevalence Index = B/A =					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					X Dominance Test is > 50%					
	Total Cover	= 75			X Prevalence Index is ≤ 3.0 *					
			_		Morphological Adaptations (Explain) *					
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Spartina pectinata	30	Υ	FACW						
2.	Carex sartwellii	20	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be					
3.	Calamagrostis canadensis	15	 N	FACW	present, unless disturbed or problematic.					
4.	Carex atherodes	15	N	OBL	Definitions of Vegetation Strata:					
5.	Calamagrostis stricta	10	N	FACW						
6	Ribes hirtellum	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Carex pellita	5	N	OBL	height (DBH), regardless of height.					
8.	- Carex points			- 002						
9.	1				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.					Supinity of the superior of th					
11.										
12.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.	I .	1			TICID The second control of the second contr					
14.										
15.					Woody Vines - All woody vines, regardless of height.					
15.	Total Cover	400			Woody Villes - All Woody Villes, Tegardiess of Height.					
	Total Cover	= 100	_							
100	(D) () () () () ()									
Woody Vine Sti	ratum (Plot size: 30 ft. radius)									
1.										
2.					H. Janel, d'a Variatatia a Barra (10 V					
3.					Hydrophytic Vegetation Present?Y					
5.		_								
4.	T. 10									
<u> </u>	Total Cover		 							
Remarks: The wetland is dominated by meadow willow and red-osier dogwood. Dense herbaceous cover is dominated by graminoids.										
Additional Remarks:										
1										