WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14	
Applicant:		Enbridge			0 1 1	/A 41 D A		14 D 4 50		County:	Pennington	
							MLRA 56		State:	MN		
Soil Unit: Landform:	I5A Dip			_	cal Relief:		i Classification.			Sample Point:	w-154n44w33-s1	
Slope (%):	3 - 7%		Latitude: 48.11		Longitude:		1713333	Datum:			W-1041144W00-31	
` ,		nditions on the site						✓ Yes	□ No	Section:		
Are Vegetation	-	□, or Hydrology			(e normal circum			Township:		
Are Vegetation		□, or Hydrology	•					□ No ˙		Range:	Dir:	
SUMMARY (OF FINDINGS	3										
Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes												
Wetland Hydrology Present?				Yes			Is This Sampling Poin			nt Within A We	etland? Yes	
Remarks:	The wetland	l is a Shrub-Carr l	ocated downs	ope from a f	arm field.							
	V											
HYDROLOG												
		cators (Check all	that apply; Mi	nimum of on	e primary o	or two s	econdary requii	ed):				
Primary	_	Matar			D44 Call C	Sm. 104			Secondary:		oil Crooks	
	A1 - Surface \ A2 - High Wa				B11 - Salt C B13 - Aquat					B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio				C1 - Hydrog					B10 - Drainage		
	B1 - Water Ma	arks			C2 - Dry Se	ason Wa	iter Table			C3 - Oxidized F	Rhizospheres on Living Roots (til	illed)
	B2 - Sedimen	•					spheres on Living	Roots (not till	le 🗆	C8 - Crayfish E		
	 □ B3 - Drift Deposits □ C4 - Presence of Reduced Iron □ B4 - Algal Mat or Crust □ C7 - Thin Muck Surface 									D2 - Geomorph	Visible on Aerial Imagery	
	B5 - Iron Dep				Other (Expla				☑	D5 - FAC-Neut		
	•	n Visible on Aerial Im	nagery	_	(=:	,					ved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
							1					
Field Obser					41 \							
Surface Wat		Yes □	Depth		_ (in.)			Wetland F	lydrology	Present?	Υ	
Water Table		Yes	Depth		_ (in.)				.,		<u> </u>	
Saturation P	racant7											
Cataration	i eserit :	Yes	Depth	·	_ (in.)							
		tream gauge, moni	·		• ` '	ections),	if available:					
	orded Data (s		itoring well, aer		• ` '	ections),	if available:					
Describe Rec Remarks:	orded Data (s	tream gauge, mon	itoring well, aer		• ` '	ections),	if available:					
Describe Rec Remarks:	orded Data (s The wetland	tream gauge, moni	itoring well, aer	ial photos, pr	evious inspe	·						
Describe Rec Remarks: SOILS Profile Descri	orded Data (s The wetland	tream gauge, moning is located in a dipleter between the depth ne	itoring well, aer	ial photos, pro	evious inspe	nfirm th	e absence of in					
Describe Rec Remarks: SOILS Profile Descri	orded Data (s The wetland	tream gauge, moni	itoring well, aer	ial photos, pro	evious inspe	nfirm th	e absence of in					
Describe Rec Remarks: SOILS Profile Descri	orded Data (s The wetland	tream gauge, moning is located in a diple is	itoring well, aer	ial photos, pro	evious inspe	nfirm th	e absence of in ore Lining, M=Matr					
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer	orded Data (s The wetland	tream gauge, moning is located in a diplete to the depth necession, RM=Reduced Matrix	eeded to docur	ial photos, proment the indi	evious inspectator or co	nfirm the fon: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks	
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	orded Data (s The wetland iption (Descri	tream gauge, monitoring is located in a diplete to the depth new etion, RM=Reduced Matrix Color (Moist)	eeded to docur	ial photos, pro	evious inspectator or co	nfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks	
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20	iption (Descrintration, D=Depleted Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 8/1	eeded to docuratrix, CS=Covered	ment the indi	cator or co Grains; Locati	nfirm the ion: PL=P	e absence of in ore Lining, M=Matr es Type C	Location	CL		Remarks	
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20	orded Data (s The wetland iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 8/1	eeded to docuratrix, CS=Covered	ment the indi	cator or co Grains; Locati	nfirm the ion: PL=P	e absence of in ore Lining, M=Matr es Type	Location	CL SIC	for Problematic		
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 8/1	eeded to docuratrix, CS=Covered	ment the indid/Coated Sand (Coated Sand (Coa	cator or co Grains; Locati Moist) 6/8	nfirm the ion: PL=P	e absence of in ore Lining, M=Matr es Type C	Location	CL SIC	or Problematic		
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Describe Reconcers Remarks: SOILS Profile Descri (Type: C=Concers) Depth (In.) 0-12 12-20 NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 8/1 Indicators (chain a dipedon	eeded to docuratrix, CS=Covered	ment the indid/Coated Sand (Coated Sand (Coa	cator or co Grains; Locati Moist) 6/8 not present	nfirm the ion: PL=Pi Mottle % 5	e absence of in ore Lining, M=Matr es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast		: Soils ¹	
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 8/1 Indicators (chain a dipedon stice of Sulfide Layers (LRR F) ck (LRR FGH)	eeded to docuratrix, CS=Covered % 100 95 neck here if income	ment the indicators are results of the color	cator or cor Grains; Locati Moist) 6/8 not present edox Matrix flucky Minera Gleyed Matrix I Matrix ark Surface	nfirm the ion: PL=Pi	e absence of in ore Lining, M=Matr es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic Parent Material	E Soils ¹ LRR F, G, H) PINS (LRR H, outside MLRA 72, 73)	
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 8/1 Indicators (chain a sulfide Layers (LRR FGH) and Below Dark Surface	eeded to docuratrix, CS=Covered % 100 95 neck here if income	ment the indiction of the color (Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	cator or co Grains; Locati Moist) 6/8 not present edox Matrix fucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface	nfirm the ion: PL=Pi	e absence of in ore Lining, M=Matr es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	E Soils ¹ LRR F, G, H) PINS (LRR H, outside MLRA 72, 73)	
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth need in a diperior of the depth need in a sufficient of the depth need in a diperior of the depth need in a sufficient of the depth need in a sufficie	eeded to docuratrix, CS=Covered % 100 95 neck here if income e e RR G, H)	ment the indicators are respectively. Color (Management of the indicators are respectively. Statement of the indic	cator or cor Grains; Locati Moist) 6/8 not present edox Matrix fleyed Matrix I Matrix eark Surface I Dark Surface epressions	nfirm the ion: PL=Pi Mottle % 5	e absence of inore Lining, M=Matres Type C	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	E Soils ¹ LRR F, G, H) INS (LRR H, outside MLRA 72, 73) urface	esent,
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w33-s1		
					•		
VEGETATIO	N (Species identified in all uppercase a	are non-native	e species.)				
Tree Stratum ((Plot size: 30 ft. radius)						
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet		
1.							
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)		
3.							
4.					Total Number of Dominant Species Across All Strata: 2 (B)		
5.					·		
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
7.	<u></u>				(. 4 2)		
8.	,	1			Prevalence Index Worksheet		
9.	J				Total % Cover of: Multiply by:		
10.							
10.	_l Total Cover =	= 0			OBL spp. $\frac{10}{160}$ $\frac{10}{160}$ $\frac{10}{160}$ $\frac{10}{160}$ $\frac{10}{160}$ $\frac{10}{160}$		
	Total Cover -		FAC spp. $\frac{160}{10}$ $\frac{1}{10}$				
Conting/Charth	Chrotum (Diet einer 45 ft. redice)				FAC spp. $\frac{10}{2}$ \times $3 = \frac{30}{2}$		
	Stratum (Plot size: 15 ft. radius)	1 75		FACW	FACU spp. $0 \times 4 = 0$		
1.	Salix discolor	75	NI		UPL spp. $0 x 5 = 0$		
2.	Salix petiolaris	10	N	OBL	T + 1		
3.					Total 180 (A) 360 (B)		
4.							
5.					Prevalence Index = B/A = 2.000		
6.							
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.]			X Dominance Test is > 50%		
	Total Cover =	= 85			X Prevalence Index is ≤ 3.0 *		
					Morphological Adaptations (Explain) *		
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *		
1.	Phalaris arundinacea	70	Υ	FACW			
2.	Symphyotrichum lateriflorum	15	N	FACW	* Indicators of hydric soil and wetland hydrology must be		
3.	Solidago gigantea	10	N	FAC	present, unless disturbed or problematic.		
4.	Condago gigaritoa			1710	Definitions of Vegetation Strata:		
5.							
6					Tree - West valents 2 in (7 Com) or many in disprets at breest		
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.		
					116.ig. i. (2.21.); 1.0ga. a.000 0. 110.ig. iii		
8.		<u>. </u>			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.		
9.					Sapling/Snrub - Woody Plants less than 3 lift DBH, Tegardless of Height.		
10.		<u> </u>					
11.		1					
12.		1			Herb - All herbaceous (non-woody) plants, regardless of size.		
13.							
14.		1					
15.		1			Woody Vines - All woody vines, regardless of height.		
	Total Cover =	= 95					
Woody Vine St	ratum (Plot size: 30 ft. radius)						
1.							
2.							
3.	-				Hydrophytic Vegetation Present? Y		
5.							
4.	<u>'</u>						
	Total Cover =	= 0					
Remarks:	The wetland sample point is dominated by		y and road	conory ar			
Remarks.	The wettand sample point is dominated by p	Jussy Willow	v and reed	cariary gr	d55.		
Additional Remarks:							