WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/23/14			
Applicant:		Enbridge				<i>(</i> 2.41. – .	\			County: State:	Pennington			
Investigators:						_Subregion (MLRA or LRR): MLRA 56					MN			
Soil Unit:	IGp				cal Relief:		I Classification	:			454a 44aa40 a0			
Landform:	Depression		1 44 1 40		400	D. (Sample Point:	w-154n44w18-e2					
Slope (%):	0 - 2%		Latitude: 48.		Longitude:			Datum:		Continu				
		nditions on the site			al ? (If no, exp	T		☑ Yes	□ No	Section:				
Are Vegetation		□, or Hydrology	•	•		Are	e normal circun	-	esent?	Township:	Div			
Are Vegetation		, ,	Liaturally p	roblematic?			Yes	□ No		Range:	Dir:			
SUMMARY O			V					Lludria Cail	la Dragont?	Vee				
Hydrophytic \	_		Yes		-				Is Present?		otland? Vac			
Wetland Hyd			Yes	o doprossion	Tropogram	owing or	a adiacent unla			t Within A W				
Remarks:			•	•	_	_		•	•		in. This general area appears to			
		pit with swales and	rnages (più	s and spons) tr	irougriout.	wellan	a communities	are present	t in the pits.					
HYDROLOGY														
	•	cators (Check all t	that apply;	Minimum of on	e primary	or two se	econdary requi	ired):						
<u>Primary:</u>	1	A		_	D44 0 14	•			Secondary:		11.0			
	A1 - Surface Water				B11 - Salt (B13 - Aqua					B6 - Surface S				
V V	A2 - High Water Table A3 - Saturation				C1 - Hydro					B10 - Sparsely	Vegetated Concave Surface			
	B1 - Water Ma				C2 - Dry Se						Rhizospheres on Living Roots (tilled)			
	B2 - Sediment	Deposits			C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not till	€ □	C8 - Crayfish E	Burrows			
	B3 - Drift Depo				C4 - Prese						Visible on Aerial Imagery			
	B4 - Algal Mat				C7 - Thin N		ace		Ø	D2 - Geomorp				
	B5 - Iron Depo	osits n Visible on Aerial Ima	agery		Other (Exp	iain)				D5 - FAC-Neut	rai rest ived Hummocks (LRR F)			
	B9 - Water-St		agery							D7 - F1051-F162	ived Fidififfocks (ERIX F)			
_														
Field Observ	/ations:													
Surface Wate		Yes 🗆	Dep	th·	(in.)									
Water Table		Yes ☑	Dep		- (in.)			Wetland F	lydrology l	Present?	Y			
		Yes ☑												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:														
Describe Bose	orded Data (a		·		<u> </u>	ootiona	if available:							
	<u>`</u>	tream gauge, monito	oring well, a	erial photos, pr	<u> </u>	ections),	if available:							
Describe Reco	<u>`</u>		oring well, a	erial photos, pr	<u> </u>	ections),	if available:							
Remarks:	<u>`</u>	tream gauge, monito	oring well, a	erial photos, pr	<u> </u>	ections),	if available:							
Remarks:	Indicators of	tream gauge, monitor f wetland hydrology	oring well, a	erial photos, pront.	evious insp	·		ndicators.)						
Remarks: SOILS Profile Descri	Indicators of otion (Descri	tream gauge, monito	oring well, a	erial photos, pront. ument the indi	evious insp	onfirm the	e absence of ir							
Remarks: SOILS Profile Descri	Indicators of otion (Descri	tream gauge, monitors f wetland hydrology be to the depth nee	oring well, a	erial photos, pront. ument the indi	evious insp	onfirm the	e absence of ir							
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Remarks: SOILS Profile Descrip (Type: C=Concen	ption (Descri	tream gauge, monitors f wetland hydrology be to the depth need to the Reduced Material	oring well, a / are present eded to doc trix, CS=Cove	erial photos, pront. ument the indired/Coated Sand	evious insp cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati	rix)	Texture		Remarks			
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2	ption (Descriptration, D=Deple	tream gauge, monitor f wetland hydrology be to the depth nees etion, RM=Reduced Material Matrix Color (Moist)	oring well, a y are present eded to doc trix, CS=Cove	erial photos, pront. ument the indired/Coated Sand of Color (evious insp cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati	rix)	MP		Remarks			
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-2 2-5	ption (Descriptration, D=Depleter) Hue_10YR Hue_5Y	tream gauge, monitor f wetland hydrology be to the depth need to t	oring well, a y are present eded to doc trix, CS=Cove	erial photos, pront. ument the indired/Coated Sand of Color (cator or co	onfirm the	e absence of ir ore Lining, M=Mati es Type	Location			Remarks			
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2	ption (Descriptration, D=Deple	tream gauge, monitor f wetland hydrology be to the depth need Materian Matrix Color (Moist) 2/1	oring well, a y are present eded to doc trix, CS=Cove	erial photos, pront. ument the indired/Coated Sand of Color (0 0 Hue_5YR	cator or co	Mottle	e absence of ir ore Lining, M=Mati es Type	Location M	MP LS S		Remarks			
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-5 5-12 12-21 NRCS Hydri	htration, D=Depleteration, D=Depleterati	tream gauge, monitor wetland hydrology be to the depth need to the depth need to make the d	oring well, a y are present eded to doc trix, CS=Cove 10 10 89 eck here if i	erial photos, pront. ument the indired/Coated Sand of Color (0	cator or co Grains; Locat Moist) 5/8 4/6 7/1 4/6 not present	Mottle % 8 3 15 15	e absence of irore Lining, M=Mati	Location M M M M	MP LS S S SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast		: Soils ¹			
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-5 5-12 12-21 NRCS Hydri	Hue_10YR Hue_5Y Hue_5Y Hue_2.5Y Graph A1- Histosol A2 - Histic Epi A3 - Black Histoger	tream gauge, monitor wetland hydrology be to the depth need to the	oring well, a y are present eded to doc trix, CS=Cove 10 10 89 eck here if i	erial photos, pront. ument the indired/Coated Sand of Color (0 0 Hue_5YR Hue_5YR Hue_10YR Hue_10YR Hue_10YR Color (0 Color	cator or co Grains; Locat Moist) 5/8 4/6 7/1 4/6 not present	Mottle % 8 3 15 15	e absence of irore Lining, M=Mati	Location M M M M	MP LS S S SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils ¹			
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-5 5-12 NRCS Hydri	Hue_10YR Hue_5Y Hue_5Y Hue_2.5Y Graph A1- Histosol A2 - Histic Epi A3 - Black History A4 - Hydroger A5 - Stratified	tream gauge, monitor wetland hydrology be to the depth need to the	oring well, a y are present eded to doc trix, CS=Cove 10 10 89 eck here if i	erial photos, pront. ument the indired/Coated Sand Color (0 0 Hue_5YR Hue_5YR Hue_10YR Hue_10YR Hue_10YR The component of t	cator or co Grains; Locat Moist) 5/8 4/6 7/1 4/6 not present dedox Matrix Mucky Minera Gleyed Matrix Matrix	Mottle Mottle 8 3 15 15 t):	e absence of irore Lining, M=Mati	Location M M M M ———————————————————————————	MP LS S S SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression eed Vertic	: Soils ¹ LRR F, G, H)			
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-5 5-12 NRCS Hydri	Hue_10YR Hue_5Y Hue_5Y Hue_25Y Grade Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mud	tream gauge, monitor wetland hydrology be to the depth need to t	oring well, a y are present eded to doc trix, CS=Cove 10 10 89 eck here if i	erial photos, pront. ument the indired/Coated Sand of Color (Color (Hue_5YR Hue_5YR Hue_10YR Hue_10YR Hue_10YR Color (Colo	cator or co Grains; Locat Moist) 5/8 4/6 7/1 4/6 not present edox Matrix Mucky Minera Gleyed Matrix Oark Surface	Mottle % 8 3 15 15 t):	e absence of irore Lining, M=Mati	Location M M M M ———————————————————————————	MP LS S S SCL SCL 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 Depressions ed Vertic Parent Material	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)			
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-5 5-12 NRCS Hydri	Hue_10YR Hue_5Y Hue_5Y Hue_2.5Y Gradient Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	tream gauge, monitor wetland hydrology be to the depth need to the	oring well, a y are present eded to doc trix, CS=Cove 70 10 89 eck here if i	erial photos, pront. ument the indired/Coated Sand of Color (0 0 Hue_5YR Hue_5YR Hue_10YR Hue_10YR Hue_10YR The Component of Color (0 0 For a color (0 0 For a color (0 0 Color (0 0 0 For a color (0 0 0 0 For a color (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	cator or co Grains; Locat Moist) 5/8 4/6 7/1 4/6 not present dedox Matrix Mucky Minera Gleyed Matrix Dark Surface	Mottle % 8 3 15 15 t):	e absence of irore Lining, M=Mati	Location M M M M ————————————————————————————	MP LS S S SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)			
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-5 5-12 NRCS Hydri	Hue_10YR Hue_5Y Hue_5Y Hue_5Y A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu	tream gauge, monitor f wetland hydrology be to the depth need to	oring well, a y are present eded to doc trix, CS=Cove 10 10 89 eck here if i	erial photos, pront. ument the indired/Coated Sand Color (Color (Hue_5YR Hue_5YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (Color	cator or co Grains; Locat Moist) 5/8 4/6 7/1 4/6 not present dedox Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface depressions	Mottle Mottle 8 3 15 15 t):	e absence of irore Lining, M=Mati	Location M M M M O O O O O O O O O O O O O O O	MP LS S S SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)			
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-5 5-12 NRCS Hydri	Hue_10YR Hue_5Y Hue_5Y Hue_5Y A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Stratified	tream gauge, monitor wetland hydrology be to the depth need to t	oring well, a y are present eded to doc trix, CS=Cove 70 10 88 RR G, H)	erial photos, pront. ument the indired/Coated Sand Color (Color (Hue_5YR Hue_5YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (Color	cator or co Grains; Locat Moist) 5/8 4/6 7/1 4/6 not present dedox Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface depressions	Mottle Mottle 8 3 15 15 t):	e absence of irore Lining, M=Mati	Location M M M M O O O O O O O O O O O O O O O	MP LS S S SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S Ain in Remarks)	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)			
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-5 5-12 NRCS Hydri	Hue_10YR Hue_5Y Hue_5Y Hue_5Y A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Di S1 - Sandy Mu S2 - 2.5 cm M	tream gauge, monitor wetland hydrology be to the depth need to t	oring well, a y are present eded to doc trix, CS=Cove 70 10 88 RR G, H)	erial photos, pront. ument the indired/Coated Sand Color (Color (Hue_5YR Hue_5YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (Color	cator or co Grains; Locat Moist) 5/8 4/6 7/1 4/6 not present dedox Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface depressions	Mottle Mottle 8 3 15 15 t):	e absence of irore Lining, M=Mati	Location M M M M O O O O O O O O O O O O O O O	MP LS S S SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S Ain in Remarks)	ESOILS ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface			
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-5 5-12 NRCS Hydri	Hue_10YR Hue_5Y Hue_5Y Hue_5Y A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Stratified	tream gauge, monitor wetland hydrology be to the depth need to t	oring well, a y are present eded to doc trix, CS=Cove 70 10 88 RR G, H)	erial photos, pront. ument the indired/Coated Sand Color (Color (Hue_5YR Hue_5YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (Color	cator or co Grains; Locat Moist) 5/8 4/6 7/1 4/6 not present dedox Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface depressions	Mottle Mottle 8 3 15 15 t):	e absence of irore Lining, M=Mati	Location M M M M O O O O O O O O O O O O O O O	MP LS S S SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S Ain in Remarks)	ESOILS ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface			
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-5 5-12 12-21 NRCS Hydri	Hue_10YR Hue_5Y Hue_5Y Hue_5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Mu S3 - 5 cm Muc S4 - Sandy Gl Type:	tream gauge, monitor wetland hydrology be to the depth need to t	eded to doc trix, CS=Cove 70 10 10 10 RR G, H) RF)	erial photos, pront. ument the indired/Coated Sand of Color (0 0 Hue_5YR Hue_5YR Hue_10YR Hue_10YR Hue_10YR The Color of Color (0 0 0 1 1 2 3 3 4 4 5 5 5 5 6 7 7 7 7 8 7 8 7 8 8 8 8 8 8 9 8 9 8 9 8	cator or co Grains; Locat Moist) 5/8 4/6 7/1 4/6 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface d Dark Surface	Mottle Mottle % 8 3 15 15 t):	e absence of irore Lining, M=Matrones Type C C C C D C Hydric So	Location M M M M M Color Co	MP LS S S SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetated or problematic.	ESOILS ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface			

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-154n44w18-e2				
VEGETATIO	、 .	e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 5 (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.									
10.		0			OBL spp. $\frac{25}{25}$ $\frac{25}{25}$ $\frac{25}{25}$				
	Total Cover =				FACW spp. 82 $\times 2 = 164$				
0 1: /0! !-	Otractions (Distraction AF ft. no distraction)				FAC spp. 0				
	Stratum (Plot size: 15 ft. radius)	40	V	E A C \ A /	FACU spp. $0 \times 4 = 0$				
1.	Salix discolor	40	Y	FACW	UPL spp0				
2.	Salix eriocephala	30	Y	FACW					
3.	Salix petiolaris	5	N	OBL	Total 107 (A) 189 (B)				
4.	Salix amygdaloides	5	N	FACW					
5.	Comus alba	2	N	FACW	Prevalence Index = B/A = 1.766				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover =	82			X Prevalence Index is ≤ 3.0 *				
	Total Gover =		_						
Llank Otration	(Distriction of the markets)				Morphological Adaptations (Explain) *				
_	(Plot size: 5 ft. radius)	4.5	V	ODI	Problem Hydrophytic Vegetation (Explain) *				
1.	Carex utriculata	15	<u> </u>	OBL	* La dia atawa af handria a all and contland handrals on annotate a				
2.	Carex sartwellii	5	Y	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Eleocharis palustris	5	Υ	OBL	present, unless disturbed or problematic.				
4.					Definitions of Vegetation Strata:				
5.									
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.									
					4				
14.					Mondy Visco All woody vince regardless of height				
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	25							
Woody Vine S	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?				
5.									
4.									
	Total Cover =	0							
Remarks:			h a snarsa	herhace	ous layer dominated by sedges. Hydrophytic vegetation is present.				
Mornans.	The Shirds San community is dominated by	WINOWS WIL	n a sparst		odo layor dominatod by obagos. Trydrophlytto vogotation is present.				
	_								
Additional Remarks:									