WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/16/14
Applicant:		Enbridge			0 1 1	/A 41 D A		14154.50		County:	Pennington
Investigators		NTT/BEH			Subregio	`	or LRR):	MLRA 56		State:	MN
Soil Unit:	127A				aal Dallafi		I Classification	n:			454m4420 h4
Landform: Slope (%):	Talf 0 - 2%		Latitude: 48.1		cal Relief: Longitude:		771	Datum:		Sample Point:	w-154n44w32-b1
		nditions on the site						✓ Patum.	□ No	Section:	
Are Vegetation		□, or Hydrology			ΔΙ : (ΙΙ 110, ΕΛ)		e normal circu			Township:	
Are Vegetation		□, or Hydrology	•	•		7 (1)	☑ Yes		COOTIL:	Range:	Dir:
SUMMARY C			Platarally pr	obiomatio:			_ 103	- 110		range.	ΔII.
			Yes					Hvdric Soi	Is Present?	? Yes	
Hydrophytic Vegetation Present? Wetland Hydrology Present?					-		Is This Sampling Poin				etland? Yes
Remarks:		d is a wet meadow	Yes located in a	field that was	planted wi	ith reed o	canary grass.				
							, ,				
HYDROLOG	Υ										
		icators (Check all	that apply: N	linimum of on	e nrimary	or two se	econdary regu	uired).			
Primary	•	icators (Check all	triat apply, iv	ili ili ili di di	e primary	OI two st	econdary requ	uneu).	Secondary	:	
<u> </u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	oil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro				\square	B10 - Drainage	
	B1 - Water M B2 - Sedimen				C2 - Dry So		ater Table spheres on Livin	a Roots (not till	- ¢ □	C8 - Crayfish E	Rhizospheres on Living Roots (tilled) Burrows
	B3 - Drift Dep	•			C4 - Prese			ig reodo (not un			Nisible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp	hic Position
	B5 - Iron Dep				Other (Exp	lain)			☑	D5 - FAC-Neut	
		on Visible on Aerial Im tained Leaves	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)
	D9 - Water-S	dified Leaves									
Field Observ	vations:										
Surface Water		Yes 🗆	Dept	h:	(in.)						
Water Table		Yes	Dept		- (in.)			Wetland F	lydrology	Present?	Υ
Saturation Pr		Yes ☑	Dept	_	- (in.)						_
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s	stream dauge moni	itoring well as	rial photos pr	` ′	ections)	if available:				
	<u>`</u>				evious insp			eld			
Describe Reco	<u>`</u>	stream gauge, moni			evious insp			eld.			
Remarks:	<u>`</u>				evious insp			eld.			
Remarks:	The wetland		resent at two	inches with d	evious insprainage ald	ong the e	edges of the fi				
Remarks: SOILS Profile Descri	The wetland	d has saturation pr	esent at two	inches with di	evious insprainage ald	ong the e	edges of the fi	indicators.)			
Remarks: SOILS Profile Descri	The wetland	thas saturation probe to the depth neetion, RM=Reduced Ma	esent at two	inches with di	evious insprainage ald	ong the e	edges of the fi e absence of ore Lining, M=Ma	indicators.)			
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	thas saturation probe to the depth neetion, RM=Reduced Matrix	eeded to docu	inches with di iment the indi ed/Coated Sand	evious insprainage ald	ong the e	edges of the fi e absence of ore Lining, M=Ma	indicators.) atrix)			
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to docu	inches with displayment the indiced/Coated Sand	evious insprainage ald	ong the e	edges of the fi e absence of ore Lining, M=Ma	indicators.)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	The wetland iption (Description, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	eeded to docu	inches with displayment the indicad/Coated Sand Color (evious insprainage ald cator or congrains; Local	ong the e	edges of the fi e absence of ore Lining, M=Ma es Type	indicators.) atrix) Location	SIC		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	The wetland iption (Description, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	eeded to docu	inches with displayment the indicad/Coated Sand Color (evious insprainage ald cator or congrains; Local	ong the e	edges of the fi e absence of ore Lining, M=Ma es Type	indicators.) atrix) Location	SIC	gravel fragments	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	The wetland iption (Description, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	eeded to docu	inches with displayment the indicad/Coated Sand Color (evious insprainage ald cator or congrains; Local	ong the e	edges of the fi e absence of ore Lining, M=Ma es Type	indicators.) atrix) Location	SIC	gravel fragments	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to docu	inches with displayment the indicad/Coated Sand Color (evious insprainage ald cator or congrains; Local	ong the e	edges of the fi	indicators.) atrix) Location	SIC	gravel fragments	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	The wetland iption (Description, D=Depl	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to docu atrix, CS=Covered % 100 95	inches with displayment the indicad/Coated Sand Color (evious insprainage ald cator or cograins; Locar Moist)	ong the e	edges of the fi e absence of ore Lining, M=Ma es Type	indicators.) atrix) Location	SIC	gravel fragments	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR ric Soil Field	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to docu atrix, CS=Covered % 100 95	color (evious insprainage ald cator or cograins; Local Moist)	ong the e	edges of the fi	Location M	SIC SIC	for Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to docu atrix, CS=Covered % 100 95	color (Hue_7.5YR dicators are i	evious insperainage alcomage a	ong the e	edges of the fi	indicators.) atrix) Location M	SIC SIC Indicators A9 - 1 cm N	for Problemation	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	The wetland iption (Description, Depoint Intration,	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain)	eeded to docu atrix, CS=Covered % 100 95	Color (Hue_7.5YR dicators are in the set of the set	evious insperainage ald cator or constrains; Local Moist) 6/3 not presented a cator or constrains; Local Moist)	ong the end of the end	edges of the fi	indicators.) atrix) Location M	Indicators A9 - 1 cm N A16 - Coas	for Problemation Muck (LRR I, J) t Prairie Redox (Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chaine)	eeded to docu atrix, CS=Covered % 100 95	Color (Hue_7.5YR Adicators are I S5 - Sandy R S6 - Stripped F1 - Loamy N	evious insperainage ald cator or configurations; Local Moist) 6/3 Moist presented a cator or configuration in the cator or configuration in the cator or configuration in the cator or cator o	ong the end of the end	edges of the fi	Location M	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)	Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	The wetland iption (Description, Depoint Intration, Description, Depoint Intration, Depoi	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain in Sulfide	eeded to docu atrix, CS=Covered % 100 95	color (Hue_7.5YR Adicators are I S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	evious insperainage ald cator or constant presented and cator or cator or constant presented and cator or cator or cator or constant presented and cator or cator o	ong the end of the end	edges of the fi	Location M	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression	Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	The wetland iption (Description, Depoint Intration,	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chains and continuous	eeded to docuatrix, CS=Covered (a) 95	Color (Hue_7.5YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	evious insperainage ald cator or configurations; Local Moist) 6/3 Moist) 6/3 Anot presented with the configuration of the cator or configuration of the cator	ong the end of the end	edges of the fi	indicators.) atrix) Location M	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression	Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain in Sulfide Layers (LRR FGH) ck (LRR FGH) cd Below Dark Surface	eeded to docuatrix, CS=Covers % 100 95 neck here if ir	color (Hue_7.5YR Hue_7.5YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted	cator or concentrations; Locarins; L	ong the end of the end	edges of the fi	indicators.) atrix) Location M	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	has saturation probe to the depth neetion, RM=Reduced Minimum Matrix Color (Moist) 2/1 4/1 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) ind Below Dark Surface ark Surface	eeded to docuatrix, CS=Covers % 100 95 neck here if ir	Color (Hue_7.5YR Adicators are in the self of the s	cator or congrains; Locations; Lo	ong the end of the end	e absence of ore Lining, M=Ma	indicators.) atrix) Location M	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression ced Vertic Parent Material	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	has saturation probe to the depth neetion, RM=Reduced Minimum Matrix Color (Moist) 2/1 4/1 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) ind Below Dark Surface ark Surface	eeded to docuatrix, CS=Covered (atrix, CS=Covered (atrix)) 95 neck here if ir	Color (Hue_7.5YR Adicators are in the self of the s	cator or congrains; Locations; Lo	ong the end of the end	e absence of ore Lining, M=Ma	indicators.) atrix) Location M	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red R TF12 - Very Other (Expl	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks)	E Soils ¹ ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	has saturation probe to the depth neetion, RM=Reduced Mineral Mucky Peat or Peat (LR)	eeded to docuatrix, CS=Covered (atrix, CS=Covered (atrix)) 95 neck here if ir	Color (Hue_7.5YR Adicators are in the self of the s	cator or congrains; Locations; Lo	ong the end of the end	e absence of ore Lining, M=Ma	indicators.) atrix) Location M	Indicators A9 - 1 cm M A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very Other (Expl	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks)	ESOILS ¹ [LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	has saturation probe to the depth neetion, RM=Reduced Mineral Mucky Peat or Peat (LR)	eeded to docuatrix, CS=Covered (atrix, CS=Covered (atrix)) 95 neck here if ir	Color (Hue_7.5YR Adicators are in the self of the s	cator or congrains; Locations; Lo	ong the end of the end	e absence of ore Lining, M=Ma	Location M	Indicators A9 - 1 cm M A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very Other (Expl	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks)	ESOILS ¹ [LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	has saturation probe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chaice and Sulfide and Sulfide and Sulfide and Sulfide ark Surface ark Surf	eeded to docuatrix, CS=Covered (atrix, CS=Covered (atrix)) 95 neck here if ir	Color (Hue_7.5YR Adicators are in the self of the s	cator or congrains; Local Moist) 6/3 Moist Moist Anot present Aledox Matrix Mucky Miner Bleyed Matrix Mucky Miner Bleyed Matrix Mat	ong the end of the end	e absence of ore Lining, M=Mares Type C RA 72, 73 of LE	indicators.) atrix) Location M Comparison RR H)	Indicators A9 - 1 cm M A16 - Coas S7 - Dark S F16 - High F18 - Redur TF2 - Red F TF12 - Very Other (Expl	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks)	ESOILS ¹ [LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w32-b1
					•
VEGETATION	N (Species identified in all uppercase a	are non-native	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: 1 (A)
3.					````
4.		1			Total Number of Dominant Species Across All Strata: 1 (B)
5.					(= /
6.	<u></u>				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.	<u>J</u>	1			- Telechi di Bolimiani opedica markie OBE, i kovi, di i ko.
8.		1			Prevalence Index Worksheet
		<u> </u>			
9.					Total % Cover of: Multiply by:
10.					Total % Cover of: Multiply by: OBL spp. 20 X 1 = 20 FACW spp. 85 X 2 = 170 FAC spp. 0 X 3 = 0 FACU spp. 0 X 4 = 0 UPL spp. 0 X 5 = 0
	Total Cover =	=0	FACW spp. 85 $X Z = 170$		
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp.
1.					UPL spp. $0 x 5 = 0$
2.		1			
3.					Total 105 (A) 190 (B)
4.		1			<u> </u>
5.					Prevalence Index = B/A = 1.810
6.	i e				
7.		-			
8.	J				Hydrophytic Vegetation Indicators:
9.		1			Rapid Test for Hydrophytic Vegetation
10.					
10.	Total Cover -				
	Total Cover =	= 0	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	75	Y	FACW	
2.	Carex pellita	20	N	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Poa palustris	10	N	FACW	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.					-
					Herb - All herbaceous (non-woody) plants, regardless of size.
12.		1			- Terb - All Herbaceous (Horr-woody) plants, regardless of size.
13.		1			
14.		5			
15.		Į.			Woody Vines - All woody vines, regardless of height.
	Total Cover =	= 105			
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?
5.	1				Trydrophytic vegetation resent:
4.	<u> </u>	1			
4.	Total Cover	= 0			
Damarka	Total Cover =		عمدام مصاعات		no litto propert
Remarks:	The vegetation is dominated by Phalaris are	undinacea w	ith pocket	s of Care	x pellita present.
			·		
Additional R	lemarks:				