WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14
Applicant:		Enbridge			0 1 :	/N 41 D A	1.00)	M D 4 50		County:	Pennington
Investigators:									State:	MN	
Soil Unit: Landform:	I9A Dip			_	cal Relief:		I Classification:			Sample Point	w-154n44w33-i2
Slope (%):	0 - 2%		Latitude: 48.11				1096667	Datum:			W-10-111-1-W00-12
. , ,		nditions on the site							□ No	Section:	
Are Vegetation	•		⊏significantly		(e normal circum			Township:	
Are Vegetation			□aturally pro				Yes	□ No ˙		Range:	Dir:
SUMMARY O	F FINDINGS	3									
Hydrophytic \	√egetation P	esent?	Yes		_				Is Present?		
Wetland Hyd			Yes					Is This Sai	mpling Poir	nt Within A W	etland? Yes
Remarks:	The wetland	I sample point is lo	cated in a we	t meadow ad	ljacent to a	a hardwo	ood swamp.				
HYDROLOGY											
	•	cators (Check all	that apply; Mi	nimum of on	e primary	or two s	econdary requir	ed):			
Primary:		N - 1			D44 O-164	O			Secondary		tall Organiza
	A1 - Surface \A2 - High Wat				B11 - Salt (B13 - Aqua					B6 - Surface S	Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water Ma				C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not till	le 🗀	C8 - Crayfish E	
	B3 - Drift Dep				C4 - Prese C7 - Thin M						n Visible on Aerial Imagery
	B4 - Algal Mat B5 - Iron Depo				Other (Exp		ace		▽	D2 - Geomorp D5 - FAC-Neu	
		n Visible on Aerial Ima	agery	_	Oti 101 (2)	,					aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ					<i>(</i> ,)						
Surface Water		Yes	Depth		_ (in.)			Wetland F	Hydrology	Present?	Υ
Water Table		Yes	Depth		- (in.)				,		<u>—</u>
Saturation Pr	esent?	Yes	Depth	:	_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco	orded Data (s	tream gauge, monit	toring well, aer	ial photos, pr	evious insp	ections),	if available:				
Remarks:	· · · · · · · · · · · · · · · · · · ·	tream gauge, monit I is located in a dip					if available:				
Remarks:	· · · · · · · · · · · · · · · · · · ·						if available:				
Remarks:	The wetland	l is located in a dip	and supports	s hydrophytic	vegetation	n.		dicators)			
Remarks: SOILS Profile Descri	The wetland	I is located in a dip	and supports	hydrophytic	vegetation	n. onfirm th	e absence of in				
Remarks: SOILS Profile Descri	The wetland	l is located in a dip	and supports	hydrophytic	vegetation	n. onfirm th	e absence of in				
Remarks: SOILS Profile Descri	The wetland	I is located in a dip	and supports	hydrophytic	vegetation	n. onfirm th	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri	The wetland	be to the depth need in RM=Reduced Ma	and supports	hydrophytic	vegetation cator or co Grains; Locat	n. onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descrip (Type: C=Concent	The wetland	be to the depth need to the Matrix	eded to docur	nent the indi	vegetation cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks
Remarks: SOILS Profile Descrip (Type: C=Concent	The wetland	be to the depth need tion, RM=Reduced Marking Color (Moist)	eded to docur	nent the indi	vegetation cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture CL C		Remarks
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-8	The wetland ption (Descri	be to the depth need to the de	eded to documentrix, CS=Covered %	nent the indi	cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture CL C SIC		Remarks
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-10	The wetland ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth need to the de	eded to docuratrix, CS=Covered % 100 100	ment the indi	cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	CL C	gravel	Remarks
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-10 10-18	The wetland ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR Hue_2.5Y	be to the depth need tion, RM=Reduced Marking Color (Moist) 2/1 5/1 6/2	eded to docur etrix, CS=Covered % 100 100 75	ment the indi	cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	CL C SIC	gravel	Remarks
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-10 10-18	The wetland ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR Hue_2.5Y	be to the depth need tion, RM=Reduced Marking Color (Moist) 2/1 5/1 6/2	eded to docur etrix, CS=Covered % 100 100 75	ment the indi	cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	CL C SIC	gravel	Remarks
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-10 10-18 18-20	The wetland ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR	be to the depth need in a diperion, RM=Reduced Marking Color (Moist) 2/1 5/1 6/2 6/3	eded to docur etrix, CS=Covered % 100 100 75	ment the indid/Coated Sand	cator or co Grains; Locat Moist)	monfirm the ion: PL=P	e absence of in ore Lining, M=Matr es Type	Location	CL C SIC	gravel	Remarks
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Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-10 10-18 18-20	The wetland ption (Descriptration, D=Depletration, D=Depletrat	be to the depth need to the de	eded to docuratrix, CS=Covered %	ment the indicators are r	vegetation cator or co Grains; Locat Moist) 7/8 not present	monfirm the ion: PL=P	e absence of in ore Lining, M=Matr es Type	Location	CL C SIC OT Indicators	for Problemation	c Soils ¹
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-10 10-18 18-20 NRCS Hydri	The wetland ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth need tion, RM=Reduced Markix Color (Moist) 2/1 5/1 6/2 6/3 Indicators (checking depth need to the	eded to docuratrix, CS=Covered %	ment the indicators are respectively.	vegetation cator or co Grains; Locat Moist) 7/8 not present	monfirm the ion: PL=Pi Mottle % 25	e absence of in ore Lining, M=Matr es Type	Location	CL C SIC OT Mail Cators 1 A9 - 1 cm M A16 - Coast	for Problemation Muck (LRR I, J) t Prairie Redox (c Soils ¹
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-8 8-10 10-18 18-20 NRCS Hydri	The wetland ption (Descriptration, D=Depletration, D=Depletrat	be to the depth need in a dip Matrix Color (Moist) 2/1 5/1 6/2 6/3 Indicators (checking ipedonestic	eded to docuratrix, CS=Covered %	ment the indid/Coated Sand Coated Sand Sandy Robbits Sandy Rob	vegetation cator or co Grains; Locat Moist) 7/8 not present edox Matrix Mucky Minera	monfirm the ion: PL=P	e absence of in ore Lining, M=Matr es Type	Location	CL C SIC OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-8 8-10 10-18 18-20 NRCS Hydri	The wetland ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger	be to the depth need in a dip Matrix Color (Moist) 2/1 5/1 6/2 6/3 Indicators (checking Sulfide)	eded to documentrix, CS=Covered 100 100 75 100 eck here if incompared to the control of the cont	color (Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	vegetation cator or co Grains; Locat Moist) 7/8 not present edox Matrix flucky Minera Gleyed Matrix	monfirm the ion: PL=P	e absence of in ore Lining, M=Matr es Type	Location	CL C SIC OT Manual Side of the	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression	c Soils ¹
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-8 8-10 10-18 18-20 NRCS Hydri	The wetland ption (Descriptration, D=Depletration, D=Depletrat	be to the depth need ion, RM=Reduced Markix Color (Moist) 2/1 5/1 6/2 6/3 Indicators (checking Sulfide Layers (LRR F)	eded to docuratrix, CS=Covered %	ment the indid/Coated Sand of Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted	vegetation cator or co Grains; Locat Moist) 7/8 not present edox Matrix flucky Minera Gleyed Matrix I Matrix	monfirm the sion: PL=P	e absence of in ore Lining, M=Matr es Type	Location	CL C SIC OT Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression Ced Vertic	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-8 8-10 10-18 18-20 NRCS Hydri	The wetland ption (Descriptration, D=Depletration, D=Depletrat	be to the depth need in a dip Matrix Color (Moist) 2/1 5/1 6/2 6/3 Indicators (checking Sulfide)	eded to document atrix, CS=Covered 100 100 100 eck here if incomplete in the control of the cont	color (Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	vegetation cator or cograins; Locat Moist) 7/8 not present edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface	monfirm the ion: PL=P	e absence of in ore Lining, M=Matr es Type	Location	CL C SIC OT Malicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression Ced Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-8 8-10 10-18 18-20 NRCS Hydri	The wetland ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	be to the depth need ion, RM=Reduced Markix Matrix Color (Moist) 2/1 5/1 6/2 6/3 Indicators (check ipedon in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ark Surface	eded to document atrix, CS=Covered 100 100 100 eck here if incomplete in the control of the cont	ment the indicators are respectively. See the second of th	cator or co Grains; Locat Moist) 7/8 not present edox Matrix fleyed Matrix I Matrix ark Surface I Dark Surface epressions	monfirm the ion: PL=P	e absence of inore Lining, M=Matrices Type C	Location	CL C SIC OT Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression Ced Vertic	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Description (Type: C=Concent) Depth (In.) 0-8 8-10 10-18 18-20 NRCS Hydri	The wetland ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleteration A11 - Depleteration A12 - Thick D S1 - Sandy Mic S2 - 2.5 cm Muc S3 - 5 cm Muc	be to the depth need ion, RM=Reduced Markix Matrix Color (Moist) 2/1 5/1 6/2 6/3 Indicators (check the color of the	eded to documentrix, CS=Covered 100 100 75 100 Eck here if incompared at the control of the cont	ment the indicators are respectively. See the second of th	cator or co Grains; Locat Moist) 7/8 not present edox Matrix fleyed Matrix I Matrix ark Surface I Dark Surface epressions	monfirm the ion: PL=P	e absence of inore Lining, M=Matrices Type C	Location	CL C SIC OT Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) t Prairie Redox (Courface (LRR G) Plains Depression Ced Vertic Parent Material of Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w33-i2					
					•					
VEGETATIO	N (Species identified in all uppercase a	are non-native	species.)							
Tree Stratum ((Plot size: 30 ft. radius)									
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)					
3.		1								
4.					Total Number of Dominant Species Across All Strata: 3 (B)					
5.		1								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)					
7.	<u></u>				(742)					
8.	J	1			Prevalence Index Worksheet					
9.										
10.					Total % Cover of: Multiply by:					
10.	_l Total Cover				OBL spp. 65					
	Total Cover	= 0	_		FACW spp. 55 $\times 2 = 110$					
0 11 (01 1 1	0 (D				FAC spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$					
	Stratum (Plot size: 15 ft. radius)		\/	ODI	FACU spp. $5 X 4 = $					
1.	Salix petiolaris	5	Y	OBL	UPL spp. $0 X 5 = 0$					
2.										
3.					Total 130 (A) 210 (B)					
4.										
5.					Prevalence Index = B/A = 1.615					
6.]								
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					X Dominance Test is > 50%					
	Total Cover	= 5			X Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum (Plot size: 5 ft. radius)									
1.	Carex pellita	60	V	OBL	Problem Hydrophytic Vegetation (Explain) *					
			<u> </u>		* Indicators of hydric soil and watland hydrology must be					
2.	Juncus arcticus	40		FACW	 * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 					
3.	Symphyotrichum lanceolatum	15	N	FACW						
4.	Cirsium arvense	5	N	FACU	Definitions of Vegetation Strata:					
5.	Apocynum cannabinum	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.	<u></u>									
15.	, [Woody Vines - All woody vines, regardless of height.					
10.	Total Cover	= 125			, , , , , , , , , , , , , , , , , , ,					
	Total Cover	= 125								
)	(D) (() () () () () () () ()									
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.	1									
2.										
3.	1				Hydrophytic Vegetation Present?Y					
5.	1									
4.										
	Total Cover									
Remarks: The wetland sample point is dominated by woolly sedge, arctic rush and meadow willow.										
Additional Remarks:										
Additional Nemalks.										