## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/16/14		
Applicant:		Enbridge			0 1 .	/A 41 D A	1.00)	141 D 4 50		County:	Pennington		
Investigators				Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit:	I66A Talf			_	aal Daliafu		Classification	·		L	4E4m44w22 f4		
Landform: Slope (%):	0 - 2%		ntitude: 48.11		cal Relief:		9345000	Datum:		Sample Point	u-154n44w33-f1		
. ,		nditions on the site ty						✓ Yes	□ No	Section:			
Are Vegetation		<b>-</b>	significantly		<b>AII:</b> (II 110, 6A)	1	e normal circun			Township:			
Are Vegetation			aturally pro			/ 110	✓ Yes		COOTIL:	Range:	Dir:		
SUMMARY C			latarany pro	biomado.			_ 100	- 110		range.	Σ		
Hydrophytic \			No					Hvdric Soi	Is Present?	Yes			
Wetland Hyd	•		No							nt Within A W	etland? <b>No</b>		
Remarks:				field, upslope	e from a w	et meado	ow ditch. The s				site lacks other criteria		
	•	o qualify as a wetland	•	, , ,						,			
<b>HYDROLOG</b>		1 7											
		icators (Check all tha	at annly: Mi	nimum of on	e nrimary	or two se	econdary requi	red):					
Primary:		icators (Check all the	at apply, ivii	illinum of on	e primary	or two se	econdary requi	ieu).	Secondary				
<u>- 11111a. y.</u>	<u>.</u>	Water			B11 - Salt (	Crust				<u>.</u> B6 - Surface S	Soil Cracks		
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface		
	A3 - Saturation				C1 - Hydro					B10 - Drainag			
	B1 - Water M B2 - Sedimen			<ul><li>□ C2 - Dry Season Water Table</li><li>□ C3 - Oxidized Rhizospheres on Living Roots (not tille</li></ul>							<ul><li>C3 - Oxidized Rhizospheres on Living Roots (tilled)</li><li>C8 - Crayfish Burrows</li></ul>		
	B3 - Drift Dep	•			C4 - Prese			NOOIS (HOL IIII			n Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin N				_	D2 - Geomorp			
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu			
		on Visible on Aerial Image	ery							D7 - Frost-Hea	aved Hummocks (LRR F)		
	B9 - Water-S	tained Leaves											
Field Observ	vations:												
		Voc. □	Donth		(in )								
Surface Water		Yes □ Yes □	Depth		(in.)			Wetland F	Hydrology	Present?	N		
Water Table Saturation Pr		Yes □ Yes □	Depth: Depth:		- (in.) (in.)						<del></del>		
Saturation	esent!	162	Deptil	·	_ (III. <i>)</i>								
					<u>-</u>								
	<u> </u>	stream gauge, monitor			<u>.</u>	ections),	if available:						
Describe Reco	<u> </u>	stream gauge, monitor or secondary hydrolo			<u>.</u>	ections),	if available:						
Remarks:	<u> </u>				<u>.</u>	pections),	if available:						
Remarks:	No primary	or secondary hydrolo	ogical indica	tors were ob	served.	,		adicators )					
Remarks:  SOILS Profile Descri	No primary	or secondary hydrolo	ogical indica	tors were ob	eserved.	onfirm the	e absence of ir						
Remarks:  SOILS Profile Descri	No primary	or secondary hydrolo	ogical indica	tors were ob	eserved.	onfirm the	e absence of ir						
Remarks:  SOILS Profile Descri	No primary	or secondary hydrolo	ogical indica	tors were ob	eserved.	onfirm the	e absence of ir ore Lining, M=Mati						
Remarks:  SOILS Profile Descri (Type: C=Concen	No primary	or secondary hydrological be to the depth need etion, RM=Reduced Matrix	ogical indica	nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks		
Remarks:  SOILS Profile Descri	No primary  ption (Descriptration, D=Depl	or secondary hydrological be to the depth need etion, RM=Reduced Matrix	led to docur	tors were ob	cator or co	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati	ix)	Texture		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concent	No primary  ption (Descriptration, D=Depl	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix Color (Moist)	led to docur	nent the indi	cator or co	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati	ix)	Texture C SC	gravel	Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14	No primary  ption (Descriptration, D=Depl	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1	led to docur x, CS=Covered % 100	nent the indi	cator or co	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mati es Type	Location	С	gravel	Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14	No primary  ption (Descriptration, D=Depl	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1	led to docur x, CS=Covered % 100	nent the indi	cator or co	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mati es Type	Location	С	gravel	Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14	No primary  ption (Descriptration, D=Depl	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1	led to docur x, CS=Covered % 100	nent the indi	cator or co	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mati es Type	Location	С	gravel	Remarks		
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Remarks:  SOILS Profile Descri (Type: C=Concent)  Depth (In.) 0-14 14-21	No primary  ption (Descriptration, D=Depl  Hue_10YR Hue_5Y	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1	led to docur x, CS=Covered  100 75	nent the indi	cator or co Grains; Local	Mottle	e absence of incre Lining, M=Mati	Location	С	gravel	Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14	No primary  ption (Descriptration, D=Depl  Hue_10YR Hue_5Y	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1	led to docur x, CS=Covered  100 75	nent the indi	cator or co Grains; Local	Mottle	e absence of ir ore Lining, M=Mati es Type	Location	C SC		,		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14 14-21  NRCS Hydri	No primary  Iption (Description, D=Deplementation, D=Deplementatio	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1	led to docur x, CS=Covered  100 75	nent the indi //Coated Sand (  Color (  Hue_10YR	cator or co Grains; Local Moist) 6/8	Mottle	e absence of incre Lining, M=Mati	Location	CSC	for Problemati	,		
Remarks:  SOILS Profile Descri (Type: C=Concent)  Depth (In.) 0-14 14-21	No primary  ption (Descriptration, D=Depl  Hue_10YR Hue_5Y	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1  Indicators (chec	led to docur x, CS=Covered  100 75	nent the indi	cator or co Grains; Local Moist)  6/8  not presented	Mottle	e absence of incre Lining, M=Mati	Location	Indicators A9 - 1 cm N		c Soils <sup>1</sup>		
Remarks:  SOILS Profile Descri (Type: C=Concent)  Depth (In.) 0-14 14-21  NRCS Hydri	Hue_10YR Hue_5Y  Tic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1  Indicators (chec	led to docur x, CS=Covered  100 75	color ( Hue_10YR  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Local Moist)  6/8  not presentedox Matrix Mucky Minera	Mottle  Mottle  25  t):	e absence of incre Lining, M=Mati	Location	Indicators A9 - 1 cm N A16 - Coasi	for Problemation  Muck (LRR I, J)  t Prairie Redox  Surface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14 14-21  NRCS Hydri	Hue_10YR Hue_5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1  Indicators (checon Sulfide)	ed to docur  K, CS=Covered  100  75  k here if inc	color ( Hue_10YR  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	Cator or co Grains; Local Moist)  6/8  not presented with the control of the cont	Mottle  Mottle  25  t):	e absence of incre Lining, M=Mati	Location	Indicators A9 - 1 cm N A16 - Coasi S7 - Dark S F16 - High I	for Problemation  Muck (LRR I, J)  t Prairie Redox  Surface (LRR G)  Plains Depression	c Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14 14-21  NRCS Hydri	Hue_10YR Hue_5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix Color (Moist)  2/1  5/1  Indicators (checon Sulfide Layers (LRR F)	led to docur  K, CS=Covered  100  75  k here if inc	color (  Hue_10YR  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	cator or co Grains; Local Moist)  6/8  not presented with the content of the cont	Mottle  Mottle  25  t):	e absence of incre Lining, M=Mati	Location	Indicators A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Reduce	for Problemation  Muck (LRR I, J)  It Prairie Redox  Surface (LRR G)  Plains Depression	c Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14 14-21  NRCS Hydri	Hue_10YR Hue_5Y  Fic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1  Indicators (chec	ed to docur  K, CS=Covered  100  75  k here if inc	color (  Hue_10YR  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D	cator or co Grains; Local Moist)  6/8  not presented with the content of the cont	mottle  Mottle  25  t):	e absence of incre Lining, M=Mati	Location	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I 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 <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14 14-21  NRCS Hydri	Hue_10YR Hue_5Y  Fic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1  Indicators (checon Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface	led to docur  K, CS=Covered  100  75  k here if inc	color ( Hue_10YR  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	cator or co Grains; Local Moist)  6/8  not present edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface	mottle  Mottle  25  t):	e absence of incre Lining, M=Mati	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	for Problemation  Muck (LRR I, J)  It Prairie Redox  Surface (LRR G)  Plains Depression  Ced Vertic  Parent Material  It Shallow Dark S	c Soils <sup>1</sup> (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)		
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14 14-21  NRCS Hydri	Hue_10YR Hue_5Y  Hue_5Y  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	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1  Indicators (checon Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface eark Surface ucky Mineral flucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	ed to docur  K, CS=Covered  100  75  k here if inc	color (  Hue_10YR  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or construction of present discovery dis	Mottle  Mottle  25  t):	e absence of irore Lining, M=Mati	Location	Indicators A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	for Problemation  Muck (LRR I, J)  It Prairie Redox  Surface (LRR G)  Plains Depression  Ced Vertic  Parent Material  V Shallow Dark Sain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)  Surface	esent,	
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-14 14-21	Hue_10YR Hue_5Y  Hue_5Y  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	or secondary hydrolo be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  2/1  5/1  Indicators (checon Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface eark Surface ucky Mineral flucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	ed to docur  K, CS=Covered  100  75  k here if inc	color (  Hue_10YR  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Local Moist)  6/8  not present edox Matrix fleyed Matrix ark Surface I Dark Surface pressions ains Depres	Mottle  Mottle  25  t):	e absence of irore Lining, M=Matroses  Type  C	Location	Indicators A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Reduc 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  of Shallow Dark Stain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)  Surface	esent,	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w33-f1				
VEGETATION (	` ` '	ire non-native	species.)						
Tree Stratum (	Plot size: 30 ft. radius)  Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	<u> </u>	<del>//0 0 0 1 0 .</del>	<u> </u>	<u></u>					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata:(B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 10				
	Total Cover =	= 0	FACW spp. 25						
Conline /Chaule (	Chrotium (Diet einer 45 ft. redius)		FACT spp. $\frac{0}{\sqrt{3}}$ $\times 3 = \frac{0}{\sqrt{3}}$						
Sapling/Shrub 3	Stratum (Plot size: 15 ft. radius)	1			FACU spp. $\frac{85}{2}$ $\times$ $4 = \frac{340}{2}$				
2.					σει spp				
3.					Total 120 (A) 400 (B)				
4.	J				10tal 120 (7) — 400 (B)				
5.					Prevalence Index = B/A = 3.333				
6.		1							
7.	i e								
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.		j			Dominance Test is > 50%				
	Total Cover =	= 0	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Elymus repens	40	Υ	FACU					
2.	Lotus corniculatus	30	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Agrostis gigantea	15	N	FACW	present, unless disturbed or problematic.				
4.	Symphyotrichum lateriflorum	10	N	FACW	Definitions of Vegetation Strata:				
5.	Oligoneuron rigidum	10	N	FACU	_				
6	Carex pellita	10	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Phleum pratense	5	N	FACU	height (DBH), regardless of height.				
8.					On the atOlerant Woody plants less than 2 in DPH regardless of height				
9.				_	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11. 12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.					Herb - 7 in horbaccous (non wessay) plante, regardless of size.				
14.									
15.					Woody Vines - All woody vines, regardless of height.				
15.	Total Cover =	= 120			vicous vines a vines of vicous vicous vicous vicous vines vicous vic				
	Total Cover -	- 120							
Woody Vine Str	ratum (Plot size: 30 ft. radius)								
1.	101 3120. 30 11. 144143)								
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover =	= 0							
Remarks:	The upland sample point is dominated by quantum of the sample point is dominated by the sample point is dominated by quantum of the sample point is domina	uack grass	and bird's-	foot trefoi	l.				
Additional R	Remarks:								