## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/13/14		
Applicant:		Enbridge			O	/A 41 D A	1.00)	N		County:	Pennington		
Investigators:		MRK/BEH/RAJ		Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit:	NWI Classification:									Comple Deint	. u 154p44w21 f2		
Slope (%):	Landform: Side slope Local Relief: LL Sample Point: u-154n44w31-f2 Slope (%): 8 - 15% Latitude: 48.12255933 Longitude: -96.3591266667 Datum:												
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)   Yes □ No Section:													
Are Vegetation		□, or Hydrology			(II 110, exp	1	e normal circun			Township:			
Are Vegetation		□, or Hydrology	•	•		/ / /	✓ Yes		John:	Range:	Dir:		
SUMMARY O			platarally pr	obiomado.			1 103	_ 110		range.	<b>5</b> 11.		
Hydrophytic \			No					Hydric Soil	s Present?	<sup>o</sup> No			
Wetland Hyd	•		No		•					nt Within A W	etland? <b>No</b>		
Remarks:				ur oak, service	eberry and	smooth	brome. The si						
Remarks: The upland is a side slope dominated by bur oak, serviceberry and smooth brome. The site is located next to a gravel pit.													
HYDROLOGY													
		icators (Chack all	I that apply: N	linimum of on	o primary	or two co	ocondory roqui	rod):					
Primary:		icators (Check all	ır triat appıy, iv	imimum of on	e primary	or two se	econdary requi	rea):	Secondary				
		Nater			B11 - Salt (	Crust				<u>.</u> B6 - Surface S	Soil Cracks		
				_	B13 - Aqua						Vegetated Concave Surface		
	A3 - Saturatio				C1 - Hydro		e Odor $\square$			B10 - Drainage Patterns			
	B1 - Water M				C2 - Dry Se			Doots (not till			Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not tille		C8 - Crayfish E	Burrows n Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin M					D2 - Geomorp			
	B5 - Iron Dep				Other (Exp				_	D5 - FAC-Neur			
		n Visible on Aerial Im	magery		` .	,				D7 - Frost-Hea	aved Hummocks (LRR F)		
	B9 - Water-St	ained Leaves											
Field Observ													
Surface Wate		Yes □	Dept		(in.)			Wetland H	vdrology	Present?	N		
Water Table		Yes	Dept		(in.)				, a c.e.g,		<u></u>		
Saturation Pr	esent?	Yes □	Dept	n:	(in.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Reco	orded Data (s	stream gauge, mon	nitoring well, as	rial photos, pre	` ` ′	ections),	if available:						
Remarks:	<u>`</u>	stream gauge, mon or secondary hydi			evious insp	ections),	if available:						
	<u>`</u>				evious insp	ections),	if available:						
Remarks:	No primary	or secondary hydi	rological indic	ators were ob	evious insp served.	·							
Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary hydrone be to the depth ne	rological indic	ators were ob	evious insponential served.	onfirm the	e absence of ir						
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Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary hydrony be to the depth neetion, RM=Reduced M	rological indic	ators were ob	evious insponential served.	onfirm the	e absence of ir ore Lining, M=Matı						
Remarks:  SOILS Profile Descri (Type: C=Concen	No primary ption (Descri	or secondary hydrometric be to the depth necession, RM=Reduced M	rological indices eeded to docu	ators were ob ament the indiced/Coated Sand (	evious insponential served.  cator or contracts and served.	onfirm the	e absence of ir ore Lining, M=Matr	rix)	Toyture		Damarka		
Remarks:  SOILS Profile Descri (Type: C=Concen	No primary  ption (Descri	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix  Color (Moist)	rological indices eeded to document the document of the docume	ators were ob ment the indi- ed/Coated Sand (	evious insponential served.  cator or contracts and served.	onfirm the	e absence of ir ore Lining, M=Matı		Texture		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-19	No primary  ption (Descrintration, D=Depl	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	rological indicated to document the second to document the second to document the second tension of tension of the second tension of tension of tension of tension of tension of	ators were ob	served.  cator or co Grains; Locat  Moist)	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr es Type	Location	SL		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concen	No primary  ption (Descri	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	rological indices eeded to document the document of the docume	ators were ob	served.  cator or co Grains; Locat  Moist)	onfirm the	e absence of ir ore Lining, M=Matr	rix)		Mixed matrix.	Remarks		
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-19	No primary  ption (Descrintration, D=Depl	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	rological indicated to document the second to document the second to document the second tension of tension of the second tension of tension of tension of tension of tension of	ators were ob	served.  cator or co Grains; Locat  Moist)	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr es Type	Location	SL	Mixed matrix.	Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-19	No primary  ption (Descrintration, D=Depl	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	rological indicated to document the second to document the second to document the second tension of tension of the second tension of tension of tension of tension of tension of	ators were ob	served.  cator or co Grains; Locat  Moist)	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr es Type	Location	SL	Mixed matrix.	Remarks		
Remarks:  SOILS Profile Descrip (Type: C=Concent)  Depth (In.)  0-19  19-21	No primary  ption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 3/1	rological indicated to document the second to document the second to document the second tension of tension of the second tension of tension of tension of tension of tension of	ators were oblined/Coated Sand (Coated Sand	evious insponential served.  Cator or configurations; Locate  Moist)	Mottle	e absence of ir ore Lining, M=Mati es Type C	Location	SL	Mixed matrix.	Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-19	No primary  ption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)  2/1 3/1	rological indicated to document the second to document the second to document the second tension of tension of the second tension of tension of tension of tension of tension of	ators were oblined/Coated Sand (Coated Sand	evious insponential served.  Cator or configurations; Locate  Moist)	Mottle	e absence of ir ore Lining, M=Matr es Type	Location	SL	Mixed matrix.	Remarks		
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-19 19-21  NRCS Hydri	No primary  ption (Descrintration, D=Depletration, D=Depletration)  Hue_10YR  Hue_10YR  ic Soil Field  A1- Histosol	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  Indicators (characters)	rological indicated to document the second to document the second to document the second tension of tension of the second tension of tension of tension of tension of tension of	ators were oblined/Coated Sand (Coated Sand	evious inspector or control of control of presented edox	Mottle	e absence of ir ore Lining, M=Mati es Type C	Location	SL SL Indicators 1 A9 - 1 cm M	for Problemation	c Soils <sup>1</sup>		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-19 19-21  NRCS Hydri	ntration, D=Deplementation, D=	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  Indicators (chain in the color in the col	rological indicated to document the second to document the second to document the second tension of tension of the second tension of tension of tension of tension of tension of	ators were oblined/Coated Sand Coated Sand	evious inspectived.  Cator or constraints; Locate  Moist)  2/1  oot presentedox Matrix	Mottle % 40	e absence of ir ore Lining, M=Mati es Type C	Location	SL SL Indicators 1 A9 - 1 cm M A16 - Coast	for Problemation  Muck (LRR I, J)  t Prairie Redox (	c Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-19 19-21	No primary  ption (Descrintration, D=Depletration, D=Depletrat	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  Indicators (chapted on stice)	rological indicated to document the second to document the second to document the second tension of tension of the second tension of tension of tension of tension of tension of	ators were ob  Iment the indicator Sand (Indicators are represented by the second seco	evious inspectived.  Cator or constrains; Locate  Moist)  2/1  cot presented  edox  Matrix lucky Minera	Mottle %  40	e absence of ir ore Lining, M=Mati es Type C	Location	SL SL SL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation  Muck (LRR I, J)  t Prairie Redox ( urface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-19 19-21  NRCS Hydri	ption (Descrintration, D=Deplintration,	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  3/1  Indicators (chain in Sulfide	rological indicated to document the second to document the second to document the second tension of the second	ators were oblined/Coated Sand Coated Sand	evious inspectived.  Cator or constraints; Locate  Moist)  2/1  cot present edox Matrix lucky Minera	Mottle %  40	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators (A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High F	for Problemation  Muck (LRR I, J)  t Prairie Redox (  Jurface (LRR G)  Plains Depression	c Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-19 19-21	ntration, D=Deplementation, D=	or secondary hydrone be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  Indicators (chapted on stice)	rological indicated to document the second to document the second to document the second tension of the second	ators were ob  Iment the indicator Sand (Indicators are represented by the second seco	evious inspectived.  cator or cograins; Locate  Moist)  2/1  cot present edox Matrix lucky Mineral eleyed Matrix Matrix	Mottle % 40	e absence of ir ore Lining, M=Mati es Type C	Location	SL SL SL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemation  Muck (LRR I, J)  t Prairie Redox (  Jurface (LRR G)  Plains Depression	c Soils <sup>1</sup> (LRR F, G, H)		
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-19 19-21	ption (Descriptration, D=Deplination, D=Deplination) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  3/1  Indicators (chain chain	rological indicated to document the second s	ators were oblined/Coated Sand Good Coated Sand Good Coat	evious inspectived.  Cator or contract of	Mottle % 40 t):	e absence of ir ore Lining, M=Matr es Type C	Location	SL SL SL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problemation  Muck (LRR I, J)  It Prairie Redox ( Intrace (LRR G)  Plains Depression  Ced Vertic  Parent Material  If Shallow Dark Second in Remarks)	C Soils <sup>1</sup> (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: u-154n44w31-f2				
-					· · · · · · · · · · · · · · · · · · ·				
<b>VEGETATIO</b>	N (Species identified in all uppercase a	re non-native	e species.)						
Tree Stratum (	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.	Quercus macrocarpa	45	Υ	FACU					
2.	Acer negundo	30	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 6 (B)				
5.					·				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)				
7.					(742)				
8.					Prevalence Index Worksheet				
9.									
10.	Total Cayor	75			OBL spp. $0   x   1 = 0$ FACW spp. $0   x   2 = 0$				
	Total Cover =	75			FACW spp. $0 \times 2 = 0$				
0 11 /01					FAC spp. $30$ $\times 3 = 90$				
	Stratum (Plot size: 15 ft. radius)		\/	EAOLL	FACU spp. $\frac{115}{x^2} \times 4 = \frac{460}{x^2}$				
1.	Amelanchier alnifolia	25	Y	FACU	UPL spp. $120$ $x = 600$				
2.	Prunus virginiana	20	Y	FACU					
3.					Total <u>265</u> (A) <u>1150</u> (B)				
4.									
5.					Prevalence Index = B/A = 4.340				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	45			Prevalence Index is ≤ 3.0 *				
	7 5 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5				Morphological Adaptations (Explain) *				
Horb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1	Bromus inermis	70	V	UPL	Froblem Hydrophytic Vegetation (Explain)				
1.					* Indicators of hydric soil and wetland hydrology must be				
2.	Carex pensylvanica	50		NI	present, unless disturbed or problematic.				
3.	Toxicodendron rydbergii	15	N	FACU					
4.	Maianthemum canadense	10	N	FACU	Definitions of Vegetation Strata:				
5.					<u>_</u>				
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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
10.	Total Cover =	145							
	Total Cover =	140	_						
\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(Districtions (Districtions 200 ft modified)								
woody vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.				_	Hydrophytic Vegetation Present?N				
5.									
4.									
	Total Cover =								
Remarks: The upland canopy is dominated by bur oak and boxelder. The understory is predominantly serviceberry and chokecherry. Smooth brome and Pennsylvan									
sedge dominate the ground cover.									
Additional Remarks:									
Additional Notifiants.									