## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/27/14	
Applicant:		Enbridge			0 1 .	(1.41.D.)				County:	Pennington	
Investigators		RAJ/BJC			_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I20A			_	D-1:(		I Classification	:			450440.14	
Landform:	Depression 0 - 2%		Latitude: 48.1		cal Relief:		2606	Datum		Sample Point 	:: w-153n44w3-l1	
Slope (%):		nditions on the site			Longitude			Datum: ☑ Yes	□ No	Section:		
Are Vegetation	,	□, or Hydrology	7.	y disturbed?	ai: (II 110, ex	_	e normal circur			Township:		
Are Vegetation		□, or Hydrology					e normal circui ✓ Yes		esent:	Range:	Dir:	
SUMMARY C			Hatarany pr	obicinatio:			E 163	<b>- 110</b>		Range.	Dii.	
Hydrophytic '			Yes					Hydric Soi	Is Present?	Yes		
Wetland Hyd	•		Yes		_					nt Within A W	/etland? Yes	
Remarks:				d depression	dominated	d by gual	king aspen and	_			oods, buckthorn, ar	nd other
	species.		y	ог огортооотот.			and a separation			., c. c. dog		
HYDROLOG	•											
		icators (Chock all	that apply: N	dinimum of or	o primary	or two c	ocondary roqui	irod):				
Primary:	•	icators (Check all	тпат арргу, к	diffillitiatif of of	ie primary	or two s	econdary requi	irea):	Secondary:			
	<u> </u>	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa	ter Table			B13 - Aqua		ı			B8 - Sparsely	Vegetated Concave S	Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainag		<b>5</b>
	B1 - Water M B2 - Sedimer				C2 - Dry S		ater Table spheres on Living	Poots (not till		C3 - Oxidized C8 - Crayfish	Rhizospheres on Livir	ng Roots (tilled)
	B3 - Drift Dep	•					educed Iron	Roots (not till	"		on Visible on Aerial Ima	agery
	B4 - Algal Ma				C7 - Thin N				✓	D2 - Geomorp		.90.7
	B5 - Iron Dep				Other (Exp	olain)			✓	D5 - FAC-Neu		
		on Visible on Aerial Im	nagery							D7 - Frost-He	aved Hummocks (LRF	R F)
	B9 - water-S	tained Leaves										
Field Observ	vations:											
Surface Wat		Yes □	Dont	h.	(in )							
Water Table		Yes □ Yes □		h: h:	– (in.) (in.)			Wetland F	Hydrology I	Present?	Υ	
Saturation P		Yes $\square$	•		- (in.)						<del>_</del>	
Saturation Present? Yes Depth: (in.)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
	1 15 ( (				<u> </u>		16 11 11					
	<u> </u>				<u> </u>	pections),	, if available:					
Describe Rec	<u> </u>	stream gauge, moni f wetland hydrolog			<u> </u>	pections),	, if available:					
Remarks:	<u> </u>				<u> </u>	pections),	, if available:					
Remarks:	Indicators of	f wetland hydrolog	gy are presen	t.	evious insp	,		ndicators )				
Remarks:  SOILS Profile Descri	Indicators of	f wetland hydrolog	gy are presen	t. ument the ind	evious insp	onfirm th	e absence of ir					
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Remarks:  SOILS Profile Descri	Indicators of	f wetland hydrolog	gy are presen	t. ument the ind	evious insplicator or co	onfirm th	e absence of in Pore Lining, M=Mat					
Remarks:  SOILS Profile Descri	Indicators of	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma	gy are presen	t. ument the indiged/Coated Sand	evious inspired to the control of th	onfirm th	e absence of in Pore Lining, M=Mat		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators of	f wetland hydrolog  be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)	eeded to docu	t.  ument the indicated Sand  Color (	evious inspired to the control of th	onfirm th tion: PL=P Mottl	ne absence of ine Pore Lining, M=Mat	rix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	iption (Descr	be to the depth ne etion, RM=Reduced Marix  Color (Moist)	eeded to docu atrix, CS=Cover	t.  ument the indicated Sand  Color (	cator or configurations; Local	onfirm th tion: PL=P Mottl	ne absence of ine Pore Lining, M=Mat	rix)	_		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-6	iption (Description, D=Depl	be to the depth ne etion, RM=Reduced Marix  Color (Moist)	eeded to docu atrix, CS=Cover	t.  ument the indicated Sand  Color (	cator or configurations; Local	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Mati es Type	Location	SL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-6	iption (Description, D=Depl	be to the depth ne etion, RM=Reduced Marrix  Color (Moist)  2/1	eeded to docu atrix, CS=Cover	t.  ument the indicated Sand  Color (	cator or configurations; Local	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Mati es Type	Location	SL		Remarks	
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Remarks:  SOILS  Profile Descri (Type: C=Concer  Depth (In.)  0-6  6-18	iption (Description, D=Depl	Matrix Color (Moist)  2/1  5/2	eeded to docu atrix, CS=Cover	t.  ument the indiged/Coated Sand  Color (	evious inspections in specific description of the control of the c	onfirm th tion: PL=P Mottl %	e absence of in Pore Lining, M=Mati es Type	Location	SL		Remarks	
Remarks:  SOILS  Profile Descri (Type: C=Concer  Depth (In.)  0-6  6-18	iption (Description, D=Depl	Matrix Color (Moist)  2/1  5/2	eeded to docu atrix, CS=Cover	t.  ument the indicated Sand  Color (	evious inspections in specific description of the control of the c	onfirm th tion: PL=P Mottl %	e absence of income Lining, M=Mate	Location	SL LFS	for Problemati		
Remarks:  SOILS  Profile Descri (Type: C=Concer  Depth (In.)  0-6  6-18	iption (Description, D=Deplementation, D=Depleme	Matrix Color (Moist)  2/1 5/2  Indicators (ch	eeded to docu atrix, CS=Cover	t.  Iment the indicators are indicators are indicators.	evious inspections in special cator or configurations; Local Moist)  R 3/4  not presented a section of the configuration of the configu	onfirm th tion: PL=P Mottl %	e absence of income Lining, M=Mate	Location	Indicators f	luck (LRR I, J)	ic Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-6 6-18  NRCS Hydr	iption (Description, Depoint Indicators of I	metland hydrolog  The to the depth neglight of the depth neglight	eeded to docu atrix, CS=Cover	t.  Iment the indicators are indicators are in S6 - Stripped	mot presented Matrix	onfirm the stion: PL=P  Mottl % 15 at):	e absence of income Lining, M=Mate	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	ic Soils <sup>1</sup> (LRR F, G, H)	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w3-I1			
VEGETATIO	```	are non-native	species.)					
Tree Stratum (	(Plot size: 30 ft. radius)							
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.	Populus tremuloides	50	Y	FAC				
2.	Quercus macrocarpa	50	Y	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.		1			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
	 Total Cover =	100			FACW spp. $50$ $\times 2 = 100$			
				FAC spp. $75$ $\times 3 = 225$				
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{10}{65}$ $\frac{1}{260}$ $\frac{220}{4}$			
1.	Comus alba	15	Υ	FACW	UPL spp. $0   x   5 = 0$			
2.		15		FAC	Ο L 3pp			
3.	Populus tremuloides			FACU	Total 220 (A) 625 (B)			
	Rhamnus cathartica	10		FAC	Total <u>230</u> (A) <u>625</u> (B)			
4.	Cornus racemosa	10	N		D			
5.	Viburnum lentago	5	N	FACU	Prevalence Index = B/A = 2.717			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.		= 55			XDominance Test is > 50%			
	Total Cover =				X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Carex pellita	40	Υ	OBL				
2.	Poa palustris	10	N	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Rubus pubescens	10	N	FACW	present, unless disturbed or problematic.			
4.	Carex tenera	5	N	FACW	Definitions of Vegetation Strata:			
5.	Symphyotrichum lateriflorum	5	N	FACW				
6	Calamagrostis stricta	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	Caramagreette etneta			171011	height (DBH), regardless of height.			
8.								
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
					Sapinig/Siliub - Woody Planto 1000 than 6 th. 2211, Togardious of Holgita			
10.								
11.					All bank account (non-vecaks) plants, pagentless of size			
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	= 75						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
''	Total Cover =	= 0						
Remarks:			he interior tl	he herbace	bus vegetation is thinner but wetland species are still present. The community is dominated by			
Nemarks.					. The herbaceous layer is dominated by woolly sedge. Hydrophytic vegetation is present.			
	The state of the s	-g5546, 546		or ormade	- The headestable age. to definition by troony coago. Tryanophytic vogetation to procent			
Additional Remarks:								