## WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R									Date:	09/15/14	
Applicant:		Enbridge				0 1 .	(1.41.D.)				County:	Pennington	
Investigators		BEH/RAJ/MRK				_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	175A				1 -	I D - I' - (		I Classification:				4544404 !0	
Landform:	Shoulder 3 - 7%		Latitude: 48	120		cal Relief		04400	Detuses		Sample Point	<u>u-154n44w31-j3</u>	
Slope (%):		onditions on the site					: -96.352		Datum: ☑ Yes	□ No	Section:		
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Are Vegetation  Are Vegetation		□, or Hydrology □, or Hydrology		-			All	e normal circun ☑ Yes	⊓stances pre □ No	esent?	Township:	Dir:	
SUMMARY C			Platurally	ρισοι	icinatic:			<u> </u>	□ 1 <b>10</b>		Range:	DII.	
Hydrophytic '			No	`					Hydric Soil	ls Present?	. No		
Wetland Hyd	•		No			_					nt Within A W	etland? <b>No</b>	
Remarks:		sample point is loc			ak forest u	inslope fro	om a qua	aking aspen swa					
rtomarko.	The apiana	cample point to loc		<b>J G G G</b>	art foroot, t	apolopo III	om a qua	aning dopoir ow	amp within c	a large weth	and complex	•	
HYDROLOG	Υ												
		icatora (Chaalcall	that apply	Mini	imum of or	o primary	or two o	acandary raqui	rad\.				
Primary:	•	icators (Check all	that apply;	, IVIII II	imum oi oi	ie primary	or two s	econdary requi	rea):	Secondary:			
	<u>·</u> A1 - Surface	Water				B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa					B13 - Aqua		ì				Vegetated Concave Sur	face
	A3 - Saturation					C1 - Hydro					B10 - Drainag		
	B1 - Water M					C2 - Dry S			Deate (set till			Rhizospheres on Living	Roots (tilled)
	B2 - Sedimer B3 - Drift Dep	•						spheres on Living educed Iron	Roots (not till		C8 - Crayfish	Burrows n Visible on Aerial Image	2rv
	B4 - Algal Ma					C7 - Thin I					D2 - Geomorp		51 y
	B5 - Iron Dep					Other (Exp					D5 - FAC-Neu		
		on Visible on Aerial Im	nagery								D7 - Frost-He	aved Hummocks (LRR F	=)
	B9 - Water-S	tained Leaves											
Field Observ	votiono.												
Field Observ		V	Б.			(i.a.)							
Surface Water		Yes		epth: _		_ (in.)			Wetland F	lydrology	Present?	N	
Water Table		Yes $\square$		epth: _		_ (in.)						<del></del>	
Saturation Present? Yes Depth: (in.)													
						<u> </u>							
Describe Rec	<u> </u>	stream gauge, moni		aeria	•	evious insp	pections),	, if available:					
Describe Rec	<u> </u>	stream gauge, monitors		aeria	•	evious insp	pections),	, if available:					
Remarks:				aeria	•	evious insp	pections),	, if available:					
Remarks:	No primary	or secondary hydro	ological ind	aeria dicato	ors were ob	evious insposerved.	,		adicators \				
Remarks:  SOILS Profile Descri	No primary	or secondary hydro	cological ind	aeria dicato	ors were ob	evious insposerved.	onfirm th	e absence of ir					
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Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix	eeded to do	aeria dicato ocume vered/0	ent the ind	evious insposerved.  Cator or congrains; Loca	onfirm th	ne absence of in Pore Lining, M=Matr	rix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)	eeded to do	aeria dicato ocume vered/0	ors were ob	evious insposerved.  Cator or congrains; Loca	onfirm th	ne absence of in Pore Lining, M=Matr		Texture		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to doo atrix, CS=Cove	aeria dicato ocume vered/0	ent the ind	evious insposerved.  Cator or congrains; Loca	onfirm th	ne absence of in Pore Lining, M=Matr	rix)		abundant pebble		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19	No primary iption (Descr	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to doo atrix, CS=Cove	aeria dicato ocume vered/0	ent the ind	evious insposerved.  Cator or congrains; Loca	onfirm th	ne absence of in Pore Lining, M=Matr	rix)	SL	abundant pebble		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19	No primary iption (Descr	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to doo atrix, CS=Cove	aeria dicato ocume vered/0	ent the ind	evious insposerved.  Cator or congrains; Loca	onfirm th	ne absence of in Pore Lining, M=Matr	rix)	SL	abundant pebble		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-25	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	or secondary hydro be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  6/3  Indicators (ch	eeded to dogatrix, CS=Cove	aeria dicato cume vered/0 00 00 i indic	ent the indicoated Sand	evious insposerved.  Cator or configuration of preserved.  Redox	onfirm th	e absence of in Pore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M	for Problemati	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-25  NRCS Hydr	No primary  iption (Description, D=Deplete Intration, D=Deplete Intratio	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1  6/3  Indicators (ch	eeded to dogatrix, CS=Cove	aeria dicato cume vered/0  00  00  i indic	ent the indicated Sand  Color (  Cators are    S5 - Sandy F  S6 - Stripped  F1 - Loamy N	evious insposerved.  Cator or configuration of preserved.  Redox I Matrix Mucky Miner	onfirm thation: PL=P  Mottl % at):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-19 19-25  NRCS Hydr	No primary  iption (Description, D=Depinion, D=Depinio	or secondary hydro  ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1 6/3  Indicators (ch	eeded to dogatrix, CS=Cove	aeria dicato cume vered/0  00  00  indicato	ent the indicated Sand  Color (  Cators are    S5 - Sandy F66 - Stripped  1 - Loamy F72 - Loamy F72 - Loamy F732 - Loamy F733 - Loamy F734 - Loamy F	evious insposerved.  Cator or configuration of cator or cator	onfirm thation: PL=P  Mottl % at):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	c Soils <sup>1</sup>	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: u-154n44w31-j3
<b>VEGETATION</b>	` ` `	e non-native	e species.)		
Tree Stratum (	(Plot size: 30 ft. radius)				
4	Species Name	% Cover		Ind.Status	Dominance Test Worksheet
1.	Quercus macrocarpa	75	Y	FACU	
2.	Acer negundo	5	N	FAC	Number of Dominant Species that are OBL, FACW, or FAC:1(A)
3.				!	
4.				!	Total Number of Dominant Species Across All Strata:4 (B)
5.				!	
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cavan			'	OBL spp. 0
	Total Cover =	80	_	,	FACW spp 0
				'	FAC spp. $\frac{80}{1}$ $\times$ $3 = \frac{240}{1}$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 111 X 4 = 444
1.	Cornus racemosa	70	Y	FAC	UPL spp. $70$ $x = 350$
2.	Prunus virginiana	10	N	FACU	
3.	Viburnum opulus	5	N	FAC	Total <u>261</u> (A) <u>1034</u> (B)
4.	Amelanchier humilis	5	N	NI	
5.	Toxicodendron rydbergii	5	N	FACU	Prevalence Index = B/A =
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	95		,	Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex pensylvanica	65	Υ	NI	j
2.	Aralia nudicaulis	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Actaea rubra	1	N	FACU	present, unless disturbed or problematic.
4.					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.
	Total Cover =	86			
			_	,	
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.	1 100 01201 00 111 123.20)				
2.					
3.					Hydrophytic Vegetation Present? N
5.					11yarophytio 10gotation 11000
4.					
··-	Total Cover =	0			
Remarks:			ominated !	by gray do	gwood. Other mixed shrubs are present. The ground layer is primarily Pennsylvania
Nemans.	sedge and wild sarsaparilla.	ub layer a	Jiiiiiatea k	Jy gray ac,	gwood. Other mixed silidos are present. The ground layer is primarily i crinisyivarila
	Seage and who sarsaparma.				
Additional R	kemarks:				
1					
1					
1					