## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/13/14	
Applicant:		Enbridge				0.1	/B 41 🗅 1	\IDD\	NAL DA = 0		County:	Pennington	
Investigators		MRK/BEH/RAJ				Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I27A				1			I Classification:	PEM/SS1E	3g		454-4424-64	
Landform:	Crest 26 - 60%		Latitude: 48	122		cal Relief:		20005000	Dotum		Sample Point: 	u-154n44w31-b1	
Slope (%):		onditions on the site						58805000	Datum:	□ No	Section:		
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Are Vegetation  Are Vegetation		l ☑, or Hydrology l □, or Hydrology		-			Air	e normal circun ☑ Yes	□ No	esent?	Township:	Dir:	
SUMMARY C			□laturally	ρισυι	iemalie:			<u> </u>	□ 1 <b>10</b>		Range:	DII.	
Hydrophytic \			No	1					Hydric Soil	ls Present?	No		
Wetland Hyd	•		No.			<u>-</u>					t Within A W	etland? <b>No</b>	
Remarks:		sample point is a			ated by Ca	nada thist	le and re	eed canary gras		ripiirig r oiri	te vvicinii / ( vv	charia: 110	
- Komarko.	THE aplana		opon pho at	0111111	atou by ou	nada tinot	io aria re	ou canaly grad					
HYDROLOG	Υ												
		icatora (Chaak all	l that apply	. Mini	imum of on	o primary	or two o	acandary raqui	rod\.				
Primary:	•	icators (Check all	i that apply;	, IVIIIII	imum oi on	e 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		1				Vegetated Concave Surfa	ice
	A3 - Saturation					C1 - Hydro					B10 - Drainage		
	B1 - Water M					C2 - Dry S			Doote (not till			Rhizospheres on Living R	oots (tilled)
	B2 - Sedimer B3 - Drift Dep	•						spheres on Living educed Iron	Roots (not till	<b>€</b> □	C8 - Crayfish E	Burrows n Visible on Aerial Imagery	W
	B4 - Algal Ma					C7 - Thin N				=	D2 - Geomorp		у
	B5 - Iron Dep					Other (Exp					D5 - FAC-Neu		
		on Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves											
Field Observe													
Field Observ			_			(! \							
Surface Wate		Yes		_		_ (in.)			Wetland H	lydrology l	Present?	N	
Water Table		Yes		epth: _		(in.)						<del></del>	
Saturation Present? Yes   Depth: (in.)													
						<u> </u>							
Describe Rec	orded Data (	stream gauge, moni			ıl photos, pr	<u> </u>	pections),	, if available:					
Describe Rec	`		itoring well,	aeria	ıl photos, pr	<u> </u>	ections),	, if available:					
Remarks:	`	stream gauge, moni	itoring well,	aeria	Il photos, pr	<u> </u>	pections),	, if available:					
Remarks:	No hydrolog	stream gauge, moni gical indicators wer	itoring well, re observed	aeria d.		evious insp							
Remarks:  SOILS Profile Descri	No hydrolog	stream gauge, moni gical indicators wer	itoring well, are observed bedeed to do	aeria d.	ent the indi	evious insp	onfirm th	e absence of ir					
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7 0-7  NRCS Hydr	No hydrolog iption (Description, D=Depleter) Hue_10YR Hue_2.5Y	stream gauge, moningical indicators were libe to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1  5/2	itoring well, are observed bedded to do latrix, CS=Cov	aeria d.  ocumo vered/0  90  10	ent the indi Coated Sand Color (	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr es Type	Location	SCL SL	or Problematic	,	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7 0-7	No hydrolog iption (Description, D=Depleter) Hue_10YR Hue_2.5Y  ric Soil Field A1- Histosol	stream gauge, moningical indicators were libe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  5/2  Indicators (ch	itoring well, are observed bedded to do latrix, CS=Cov	aeria d.  cume vered/0  90  10	ent the indi Coated Sand Color (  Cators are r	cator or cograins; Loca  Moist)  not presented ox	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr es Type	Location	SCL SL Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7 0-7  NRCS Hydr	No hydrolog iption (Description, D=Depleter) Hue_10YR Hue_2.5Y	stream gauge, monical indicators were to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  5/2  Indicators (chappedon	itoring well, are observed bedded to do latrix, CS=Cov	aeria d.  ocume vered/0  10  f indic	ent the indi Coated Sand Color (	cator or cograins; Loca  Moist)  not presented a matrix	Mottl %	e absence of in Pore Lining, M=Matr es Type	Location	SCL SL  Indicators f A9 - 1 cm M A16 - Coast		c Soils <sup>1</sup> (LRR F, G, H)	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7 0-7  NRCS Hydr	Hue_10YR Hue_2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	stream gauge, monical indicators were to the depth need to the depth need to the depth need to the detion, RM=Reduced Matrix  Color (Moist)  2/1  5/2  Indicators (chapped on stice in Sulfide in Sulfide in Layers (LRR F)	itoring well, are observed bedded to do latrix, CS=Cov	aeria d.  ocumo vered/0  10  f indic	ent the indi Coated Sand Color (  Cators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy C  F3 - Depleted	cator or congrains; Local Moist)  Moist)  edox Matrix Mucky Miner Gleyed Matrix Matrix	mottl  Mottl  %  t):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressions ed Vertic	c Soils <sup>1</sup> (LRR F, G, H)	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w31-b1
<b>VEGETATIO</b>	(Species identified in all uppercase	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.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:1(A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0
Total Cover = 0				OBL spp. 0	
					FAC spp. $15$ $X 3 = 45$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $70$ $x 4 = 280$
1.					UPL spp. $\underline{\qquad}$ $x = \underline{\qquad}$
2.					
3.					Total 115 (A) 385 (B)
4.					
5.					Prevalence Index = B/A = 3.348
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					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.	Cirsium arvense	30	Υ	FACU	
2.	Phalaris arundinacea	30	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Helianthus tuberosus	20	N	FACU	present, unless disturbed or problematic.
4.	Melilotus officinalis	15	N	FACU	Definitions of Vegetation Strata:
5.	Calystegia sepium	10	N	FAC	
6	Nepeta cataria	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Cyclachaena xanthiifolia	5	N	FAC	height (DBH), regardless of height.
8.	Gyordenia xamminina			17.0	
9.	<u> </u>				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					Capining/Official
11.					
12.	1				Herb - All herbaceous (non-woody) plants, regardless of size.
13.	<u> </u>				FIGID - via monacous (mon mose)// Pramis, regimences of ones.
14.					
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cavan	445			Woody Villes - All Woody Villes, Tegardiess of Height.
	Total Cover	= 115	_		
11/2 1 1/2 0					
Woody Vine St	ratum (Plot size: 30 ft. radius)	-			
1.					
2.					II. Local da Variatada a Barra do Al
3.					Hydrophytic Vegetation Present?N
5.					
4.					
<u> </u>	Total Cover				
Remarks:	The upland sample point is dominated by 0	Canada thistle	e and reed	d canary g	grass.
Additional R	Remarks:				
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