WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/22/14	
Applicant:		Enbridge			0 1 .	(A 41 D)	.			County:	Marshall	
Investigators		BEH/RAJ			Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I15A				D - E - 6		I Classification	:			455-, 45004	
Landform:	Side slope 0 - 2%		Latitude: 48.2		cal Relief:)4254 <i>5</i>	Deture		Sample Point	u-155n45w20-g1	
Slope (%):		onditions on the site			Longitude:			Datum:	□ No	Section:		
Are Vegetation		□, or Hydrology			ai: (II 110, ex	1	e normal circur			Township:		
Are Vegetation		□, or Hydrology	□aturally pr				e normal circui ✓ Yes		esent:	Range:	Dir:	
SUMMARY C			Hatarany pr	obiemade:			E 163	□ 1 10		Range.	DII.	
Hydrophytic '			No					Hydric Soi	ls Present?	No		
Wetland Hyd	•		No		-					nt Within A W	etland? No	
Remarks:				ird's-foot tref	oil. The sit	e is up a	a gradual slope				e edge of a petroleum	pipeline
	corridor.		, , , , , , , , , , , , , , , , , , ,				g					p ip o
HYDROLOG												
		icators (Check all	that apply: M	linimum of on	e nrimary	or two s	econdary requi	ired):				
Primary		icators (Crieck all	triat apply, iv		e primary	OI tWO S	econdary requi	ileu).	Secondary:			
<u>- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surf	ace
	A3 - Saturation				C1 - Hydro					B10 - Drainage		5
	B1 - Water M B2 - Sedimer				C2 - Dry S		ater Table spheres on Living	Poote (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living F	Roots (tilled)
	B3 - Drift Dep	•					educed Iron	NOOIS (HOL IIII	, –		n Visible on Aerial Image	rv
	B4 - Algal Ma				C7 - Thin N				_	D2 - Geomorp		.,
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu		
		on Visible on Aerial Im	agery							D7 - Frost-Hea	aved Hummocks (LRR F))
	B9 - water-S	tained Leaves										
Field Obser	vations											
		Vac = □	Dont		(in)							
Surface Wat		Yes □ Yes □		າ:	_ (in.)			Wetland F	lydrology	Present?	N	
Water Table			•	າ:	_ (in.) _ (in.)							
·	 		<u> </u>		<u> </u>							
	<u> </u>	stream gauge, moni	toring well, ae	rial photos, pr	evious insp	ections)	, if available:					
Describe Rec	<u> </u>	stream gauge, moni or secondary hydr	toring well, ae	rial photos, pr	evious insp	pections)	, if available:					
Remarks:			toring well, ae	rial photos, pr	evious insp	pections)	, if available:					
Remarks:	No primary	or secondary hydro	toring well, aco	rial photos, pr ators were ob	evious insposerved.			adicators \				
Remarks: SOILS Profile Descri	No primary	or secondary hydro	toring well, as ological indicates	rial photos, prators were ob	evious insposerved.	onfirm th	ne absence of ir					
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Remarks: SOILS Profile Descri	No primary	or secondary hydro	toring well, as ological indicates	rial photos, prators were ob	evious insposerved.	onfirm th	ne absence of ir Pore Lining, M=Mati					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrological hydro	toring well, as ological indicates	rial photos, prators were ob ment the indi	evious insposerved. cator or co	onfirm th	ne absence of in Pore Lining, M=Mati		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological hydro	toring well, acological indicated to documents, CS=Covered %	rial photos, prators were obtained/Coated Sand	evious insposerved. cator or co	onfirm th tion: PL=P Mottl	ne absence of ir Pore Lining, M=Mati	rix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrological interest of the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	toring well, acological indicated to docu	rial photos, prators were obtained/Coated Sand	evious insposerved. cator or cograins; Loca Moist)	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Mati	rix)	Texture L LCOS		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	or secondary hydrological hydro	toring well, acological indicated to documents, CS=Covered 100 99	rial photos, prators were obtained/Coated Sand	evious insposerved. cator or cograins; Loca Moist) 7/8	Mottl %	ne absence of in Pore Lining, M=Mati les Type	Location	L		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch sipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface park Surface	toring well, according to document to docu	rial photos, protection ators were obtained and and additional additional and additional additional and additional	evious insposerved. cator or congrains; Loca Moist) 7/8 not presented Matrix Mucky Miner Bleyed Matrix	mottl Mottl % 1 t):	ne absence of in Pore Lining, M=Mati	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ed Vertic Parent Material	c Soils ¹ (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-155n45w20-g1					
VEGETATION OF Streeture (e non-native	species.)							
Tree Stratum ((Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.	<u>Species ivanite</u>	70 00101	Dominant	<u>ma.o.a.ao</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.	Total Cover -	0			OBL spp. $0 \times 1 = 0$					
Total Cover =					FAC spp. $\frac{10}{5}$ \times $2 = \frac{20}{5}$					
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACW spp. 10					
1.	Stratum (Fiot size. 15 it. radius)				UPL spp. $\frac{110}{5}$ $x = \frac{440}{25}$					
2.					Ci 2 Spp X C =					
3.					Total 130 (A) 500 (B)					
4.					(=/					
5.					Prevalence Index = B/A = 3.846					
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) *					
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Lotus corniculatus	75	Y	FACU						
2.	Phleum pratense	20	N	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
3.	Elymus repens	10	N	FACU	·					
4. 5.	Phalaris arundinacea	5 5	N N	FACW FACW	Definitions of Vegetation Strata:					
6	Agrostis gigantea Ambrosia artemisiifolia	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Sonchus arvensis	5	N	FAC	height (DBH), regardless of height.					
8.	Bromus inermis	5	N	UPL						
9.	Digitus mentis			0, 2	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.										
11.										
12.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.										
14.										
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	130								
			_							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.					II. Local di Wasatatia Bassato N					
3.					Hydrophytic Vegetation Present?N					
5.										
4.	Total Cayor	0								
Remarks:	Total Cover = The sample point dominated by bird's-foot tro									
Nemarks.	The sample point dominated by bitd \$-100t tro	UII.								
\	Oomarka.									
Additional R	Kemarks:									