WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R	\dashv							Date:	08/13/14 Maraball	
Applicant:		Enbridge BEH/MRK			Subragion	~ /N/II D /\	or LRR):	MLRA 56		County: State:	Marshall MN	
Investigators Soil Unit:	I65A	DETI/IVIKK			Subregion	`	l Classification:			State.	IVIIN	
Landform:	Dip			- 	cal Relief:		i Ciassilication.	•		Sample Point:	w-156n46w17-c1	
Slope (%):	0 - 2%	Latitud	e: 48.32		Longitude:		601635	Datum:			W 1001140W17 01	
. , ,		nditions on the site typic							□ No	Section:		
Are Vegetation		* .		disturbed?	(, ٥٨,		e normal circun			Township:		
Are Vegetation			•	blematic?			✓ Yes	□ No		Range:	Dir:	
SUMMARY C			, p							· ····································		
Hydrophytic \			Yes					Hydric Soil	s Present?	Yes		
Wetland Hyd	•		Yes		_					t Within A W	etland? Yes	
Remarks:		d is a small sedge meado	ow domi	nated by cor	nmon spik	e-rush a	and woolly sedo					
		· ·			•		, ,					
HYDROLOG	Υ											
		icators (Check all that a	nnly: Mi	nimum of on	e nrimary	or two se	econdary requi	red):				
Primary:		icators (Crieck all triat a	ppiy, iviii	illitiatii oi oii	e primary	OI TWO S	econdary requi	ieu).	Secondary:			
<u> </u>	<u>·</u>	Nater			B11 - Salt (Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa	ter Table			B13 - Aqua	itic Fauna	l			B8 - Sparsely	Vegetated Concave Surfac	е
	A3 - Saturation				C1 - Hydro					B10 - Drainage		
	B1 - Water M B2 - Sedimen				C2 - Dry Se		ater Table spheres on Living	Poots (not till	, –	C3 - Oxidized C8 - Crayfish E	Rhizospheres on Living Ro	ots (tilled)
	B3 - Drift Dep	•					sprieres on Living	Roots (not till	,	_	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin M					D2 - Geomorp		
	B5 - Iron Dep	osits			Other (Expl	lain)			✓	D5 - FAC-Neu		
		n Visible on Aerial Imagery								D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observe												
Field Observ			5		(! \							
Surface Water		Yes	Depth:		_ (in.)			Wetland H	lydrology l	Present?	Υ	
Water Table		Yes	Depth:		(in.)				, ,,		_	
Saturation Pr	resent?	Yes □	Depth:		(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	stream gauge, monitoring	well, aeri	al photos, pr	• ` ′	ections),	if available:					
Describe Reco	<u> </u>	stream gauge, monitoring vision passes the FAC-Neu			evious insp			er.				
	<u> </u>				evious insp			er.				
Remarks:	The vegetar	ion passes the FAC-Neu	utral test	and the site	evious insp	a that wo	ould collect wate					
Remarks: SOILS Profile Descri	The vegetar	tion passes the FAC-Neu	utral test	and the site	evious insp is an area	a that wo	ould collect wate e absence of in	ndicators.)				
Remarks: SOILS Profile Descri	The vegetar	ion passes the FAC-Neu	utral test	and the site	evious insp is an area	a that wo	ould collect wate e absence of in	ndicators.)				
Remarks: SOILS Profile Descri	The vegetar	be to the depth needed tetion, RM=Reduced Matrix, CS	utral test	and the site	evious insp is an area	a that wo	ould collect wate e absence of ir ore Lining, M=Matr	ndicators.)				
Remarks: SOILS Profile Descri (Type: C=Concer	The vegetar	be to the depth needed tetion, RM=Reduced Matrix	utral test to docun S=Covered	nent the indi	evious insp is an area cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr	ndicators.)	Toyturo		Domarka	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20	The vegetar ption (Descriptration, D=Depl	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1	to docun S=Covered % 100	nent the indi	evious inspectator or co	onfirm the ion: PL=Pe	e absence of inore Lining, M=Matr	dicators.)	LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	The vegetar	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1	to docun S=Covered	nent the indi	evious inspectator or co	onfirm the	e absence of in ore Lining, M=Matr	ndicators.)			Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 20-28	The vegetar ption (Descriptration, D=Depl Hue_10YR Hue_10YR	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	witral test to docum S=Covered %	cand the site	evious inspections and area cator or cograins; Locat Moist)	monfirm the months of the mont	e absence of in ore Lining, M=Matr	dicators.)	LFS		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 20-28	The vegetar Intration (Description (Description) Hue_10YR Hue_10YR Fic Soil Field	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	witral test to docum S=Covered %	cand the site nent the indicators are resident the site nent the indicators are resident to the site nent the indicators are resident to the site nent the indicators are resident to the site nent th	evious inspectator or cograins; Locate Moist) 6/8	monfirm the months of the mont	e absence of in ore Lining, M=Matr	Location M	LFS LFS	or Problematic		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 20-28 NRCS Hydr	The vegetar ption (Descriptration, D=Depl Hue_10YR Hue_10YR A1- Histosol	be to the depth needed to	witral test to docum S=Covered %	cand the site nent the individual coated Sand Color (Hue_10YR licators are r	cator or co Grains; Locat Moist) 6/8	monfirm the months of the mont	e absence of in ore Lining, M=Matr	Location M	LFS LFS Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 20-28 NRCS Hydr	The vegetal ption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/2 Indicators (check he depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS	witral test to docum S=Covered %	cand the site ment the individual coated Sand Color (Hue_10YR Sicators are r S5 - Sandy R S6 - Stripped	evious inspections an area cator or cograins; Locat Moist) 6/8 not present edox Matrix	monfirm the months of the mont	e absence of in ore Lining, M=Matr	Location M	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 20-28 NRCS Hydr	The vegetar ption (Descriptration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (check head)	witral test to docum S=Covered %	cand the site ment the indicated Sand Color (Hue_10YR Bicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	evious inspections an area cator or cograins; Locat Moist) 6/8 not present edox Matrix Mucky Minera	monfirm the months of the mont	e absence of in ore Lining, M=Matr	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-156n46w17-c1
					•
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	Dominant	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: 1 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					(142)
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cause				OBL spp. 75
	Total Cover =	0	FACW spp. $\frac{10}{10}$ \times $2 = \frac{20}{10}$		
					FAC spp. 20
	Stratum (Plot size: 15 ft. radius)				FACU spp. $5 x 4 = $
1.					UPL spp. $0 x 5 = 0$
2.					
3.					Total 110 (A) 175 (B)
4.					
5.					Prevalence Index = $B/A = 1.591$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	Total Cover =	U			
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)			0.01	Problem Hydrophytic Vegetation (Explain) *
1.	Eleocharis palustris	55	Y	OBL	
2.	Carex pellita	20	N	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Panicum virgatum	15	N	FAC	present, unless disturbed or problematic.
4.	Symphyotrichum lanceolatum	5	N	FACW	Definitions of Vegetation Strata:
5.	Phleum pratense	5	N	FACU	
6	Apocynum cannabinum	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Poa palustris	5	N	FACW	height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
					Herb - All Herbaccous (Horr woody) plants, regardless of size.
13.					
14.					All considerations and the second sec
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	110			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.				<u> </u>	Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:	The sample point is dominated by common s				
Remarks.	The sample point is dominated by common s	spike-rusri.	•		
Additional F	Remarks:				