WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/14/14	
Applicant:		Enbridge			.	(A 41 D)	.			County:	Marshall	
Investigators		BEH/MRK			_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	133A				D - E - 6		I Classification	:			450404744	
Landform:	Talf 0 - 2%		Latitude: 48.3		cal Relief:		2504060	Deture		Sample Point	u-156n46w17-d1	
Slope (%):		onditions on the site			Longitude:			Datum:	□ No	Section:		
Are Vegetation					ai: (II 110, ex		e normal circur			Township:		
Are Vegetation			□aturally pro				e normal circui ✓ Yes		esent:	Range:	Dir:	
SUMMARY C			clatarally pro	bicinatio:			E 163	- 110		Range.	Dii.	
Hydrophytic \			No					Hydric Soi	Is Present?	Yes		
Wetland Hyd	•		No		_					t Within A W	etland? No	
Remarks:		sample point is loc		bean field ne	ar a roads	side ditch	h wetland.	io iiiio cai	mpinig i on		ottaria: 110	
			,									
HYDROLOG	Υ											
		icators (Check all	that apply: M	inimum of on	a nrimary	or two s	econdary requi	ired):				
Primary:		icators (Crieck air	triat apply, ivi	iriiiriurii or or	e primary	OI tWO S	econdary requi	iieu).	Secondary:			
<u>- 1 111101 y 1</u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surfac	е
	A3 - Saturation				C1 - Hydro					B10 - Drainage		
	B1 - Water M B2 - Sedimer				C2 - Dry S		ater Table spheres on Living	Poots (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Ro	ots (tilled)
	B3 - Drift Dep	•					educed Iron	NOOIS (NOI IIII			n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N				_	D2 - Geomorp		
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu		
		on Visible on Aerial Ima	agery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - water-S	tained Leaves										
Field Observ	vations:											
		Vac = □	Donath		(in)							
Surface Water		Yes □ Yes □): 	_ (in.) _ (in.)			Wetland F	Hydrology I	Present?	N	
Water Table			Depth		_ (in.) _ (in.)						—	
Saturation Present? Yes Depth: (in.)												
<u> </u>			·		<u> </u>							
	<u> </u>	stream gauge, monit			evious insp	ections)	, if available:					
Describe Reco	<u> </u>	stream gauge, monit			evious insp	ections)	, if available:					
Remarks:	<u> </u>				evious insp	ections)	, if available:					
Remarks:	No primary	or secondary hydro	ological indica	ators were ob	evious insposerved.			adicators)				
Remarks: SOILS Profile Descri	No primary	or secondary hydro	ological indicated	ators were ob	evious insposerved.	onfirm th	ne absence of ir					
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Remarks: SOILS Profile Descri	No primary	or secondary hydro	ological indicated	ators were ob	evious insposerved.	onfirm th	ne absence of in Pore Lining, M=Mat					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydro ibe to the depth ne- etion, RM=Reduced Ma Matrix	ological indicated	ment the indi	evious insposerved. cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Mat		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrouse to the depth neetion, RM=Reduced Ma	eded to docu atrix, CS=Covere	ators were ob	evious insposerved. cator or co	onfirm th	ne absence of in Pore Lining, M=Mat	rix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descrintration, D=Dep	or secondary hydrouse to the depth neetion, RM=Reduced Ma	eded to docu atrix, CS=Covere	ment the indi	evious insposerved. cator or cograins; Loca Moist)	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Mati les Type	Location	Texture CL C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No primary iption (Descr	or secondary hydro ibe to the depth necetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to docu atrix, CS=Covere	ment the indi	evious insposerved. cator or cograins; Loca Moist)	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Mat	rix)	Texture CL C		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y	or secondary hydro ibe to the depth necetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1	eded to docu eatrix, CS=Covere	ment the indid/Coated Sand Color (Hue_2.5Y	evious insposerved. cator or cograins; Loca Moist) 6/8	Mottl %	ne absence of in Pore Lining, M=Mati les Type	Location	Texture CL C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21	No primary iption (Descrintration, D=Dep	or secondary hydro ibe to the depth necetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1	eded to docu atrix, CS=Covere	ment the indid/Coated Sand Color (Hue_2.5Y	evious insposerved. cator or cograins; Loca Moist) 6/8	Mottl %	ne absence of in Pore Lining, M=Mat	Location	CL	or Problemati	<u>.</u>	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y	or secondary hydro ibe to the depth necetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1	eded to docu eatrix, CS=Covere	ment the indid/Coated Sand Color (Hue_2.5Y	evious insposerved. cator or cograins; Loca Moist) 6/8 not presen	Mottl %	ne absence of in Pore Lining, M=Mat	Location	CL C	or Problemation	<u>.</u>	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21	No primary iption (Description, D=Deplete Intration, D=Deplete Intratio	or secondary hydro ibe to the depth necetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (characters)	eded to docu eatrix, CS=Covere	ment the indid/Coated Sand Color (Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped	evious insposerved. cator or cograins; Loca Moist) 6/8 not presentedox Matrix	Mottl % 2 t):	ne absence of in Pore Lining, M=Mat	Location	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.) 0-14 14-21 NRCS Hydr	No primary iption (Description, D=Depleter) Hue_10YR Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black History	or secondary hydro ibe to the depth necetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (characters)	eded to docu eatrix, CS=Covere	ment the indid/Coated Sand Color (Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	evious insposerved. cator or congrains; Loca Moist) 6/8 not presentedox Matrix Mucky Miner	mottl Mottl 2 t):	ne absence of in Pore Lining, M=Mat	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox urface (LRR G)	<mark>c Soils¹</mark> (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	iption (Description, Depoint Intration, Depoint Int	or secondary hydro ibe to the depth necetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (checking Sulfide)	eded to docu atrix, CS=Covere % 100 98 eck here if in	ment the indid/Coated Sand Color (Hue_2.5Y dicators are ii \$5 - Sandy R \$6 - Stripped \$1 - Loamy N \$72 - Loamy O	evious insposerved. cator or construction of present and present	mottl Mottl 2 t):	ne absence of in Pore Lining, M=Mat	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressio	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21 NRCS Hydr	Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydro ibe to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (checking Sulfide Layers (LRR F)	eded to docu atrix, CS=Covere % 100 98	ment the indid/Coated Sand Color (Hue_2.5Y dicators are ii S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted	evious insposerved. cator or congrains; Loca Moist) 6/8 not presented with the congrains and presented with the congrains and the congrains are congrains and the congrains and the congrains are congrains and the congrain are congrains and the congrains are congrains are congrains and the congrains are congrains and congrains are con	mottl Mottl % 2 t):	ne absence of in Pore Lining, M=Mat	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressiced Vertic	<mark>c Soils¹</mark> (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-21	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	or secondary hydro ibe to the depth necetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (characters) ck (LRR FGH) ck (LRR FGH) cd Below Dark Surface park Surface ucky Mineral Mucky Peat or Peat (LR cky Peat or Peat (LR)	eded to docu atrix, CS=Covere % 100 98 eck here if ince	ment the indid/Coated Sand Color (Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insposerved. cator or configurations; Loca Moist) 6/8 anot present dedox Matrix Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Matri	monfirm the tion: PL=P Mottl % 2 t): al x ace	ne absence of ir Pore Lining, M=Mati	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73)	be present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-156n46w17-d1					
VEGETATION OF STREET	· · ·	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 (valine</u>	<u>70 00 01</u>	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.		0			OBL spp. 0					
	Total Cover	0	_		FAC spp. $\frac{0}{\sqrt{3}}$ $\frac{1}{\sqrt{3}}$					
Sanling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACUSDD 10 $\times 4 = 40$					
1.	etratam (Flot size: Fort. radius)				UPL spp. $\frac{10}{80}$ $\frac{1}{2}$ $\frac{1}{400}$					
2.										
3.					Total <u>90</u> (A) <u>440</u> (B)					
4.					· · /					
5.					Prevalence Index = B/A =					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.	Total Caver				Dominance Test is > 50%					
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *					
11. 1. 011	District of the Property of				Morphological Adaptations (Explain) *					
Herb Stratum (Plot size: 5 ft. radius)	80		NI	Problem Hydrophytic Vegetation (Explain) *					
2.	Glycine max Chenopodium album	5	<u>_</u> N	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Amaranthus retroflexus	5	N	FACU	present, unless disturbed or problematic.					
4.	Amaranas retrotexas			17100	Definitions of Vegetation Strata:					
5.										
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.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.										
14.					NAVe a de Min e a . All woody vinos regardless of height					
15.	Total Cayor	00			Woody Vines - All woody vines, regardless of height.					
	Total Cover =	90	_							
Moody Vino St	rotum (Plot cizo: 20 ft rodius)									
1	ratum (Plot size: 30 ft. radius)									
2.										
3.					Hydrophytic Vegetation Present? N					
5.										
4.										
	Total Cover =	0								
Remarks:	The sample point is dominated by soybean.									
Additional R	Remarks:									