WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/18/14	
Applicant:		Enbridge					(1 41 D 4				County:	Pennington	
Investigators		MRK/OTG				_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I62A					D - 1: - 6:		I Classification:				454544422 54	
Landform:	Shoulder 8 - 15%		1 -414 10	2 4 4 4		cal Relief:		17151667	Datum		Sample Point	u-154n44w33-n1	
Slope (%):		onditions on the site	Latitude: 48					17151667	Datum:	□ No	Section:		
Are Vegetation		□, or Hydrology				ai: (II 110, ex		e normal circum			Township:		
Are Vegetation		□, or Hydrology		_				e normal circuit ☑ Yes	□ No	536111:	Range:	Dir:	
SUMMARY C			₽laturally	ргоы	icinatic:			E 163	= NO		range.	Dii.	
Hydrophytic '			No)					Hydric Soi	ls Present?	No		
Wetland Hyd	•		No			_					t Within A W	etland? No	
Remarks:		sample point is lo			ted area be	tween a h	ardwood	d swamp and till		npinig r on		onaria: 110	
HYDROLOG	Υ												
		icators (Check all	l that annly:	· Mini	imum of or	e nrimary	or two s	econdary requi	rad)•				
Primary	•	icators (Crieck all	і шасарріу,	, iviii ii	illiulli oi oi	e primary	OI tWO S	econdary requi	ieu).	Secondary:			
<u> </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	Poots (not till	, –	C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living F	Roots (tilled)
	B3 - Drift Dep	•						educed Iron	Noots (not till	, –		n Visible on Aerial Image	rv
	B4 - Algal Ma					C7 - Thin N				_	D2 - Geomorp		.,
	B5 - Iron Dep					Other (Exp	lain)				D5 - FAC-Neu		
		on Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - water-S	tained Leaves											
Field Observ	vations												
		Vaa = □	Da	a 10 4 la .		(in)							
Surface Wat		Yes □ Yes □		_		_ (in.)			Wetland F	lydrology l	Present?	N	
Water Table		Yes □ Yes □		epth: _		_ (in.) _ (in.)						_	
						<u> </u>							
	<u> </u>	stream gauge, moni		aeria	• • •	evious insp	ections),	, if available:					
Describe Rec	<u> </u>	stream gauge, moni or secondary hydr		aeria	• • •	evious insp	ections),	, if available:					
Remarks:	<u> </u>			aeria	• • •	evious insp	ections),	, if available:					
Remarks:	No primary	or secondary hydr	rological inc	aeria dicato	ors were ob	evious insposerved.	,		adicators \				
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological inc	aeria dicato	ors were ob	evious insposerved.	onfirm th	e absence of in					
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological inc	aeria dicato	ors were ob	evious insposerved.	onfirm th	e absence of in					
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological inc	aeria dicato	ors were ob	evious insposerved.	onfirm th	e absence of in Pore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydr ibe to the depth ne etion, RM=Reduced Ma	rological inc eeded to do latrix, CS=Cov	aeria dicato	ors were ob ent the indi	evious insposerved. cator or co	onfirm th	ne absence of in Pore Lining, M=Matr	ix)	Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	or secondary hydrological between the depth neterion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to do latrix, CS=Cov	aeria dicato dicato vered/0	ent the indi	evious insposerved. cator or cograins; Loca Moist)	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)	VFSL		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	No primary iption (Description, D=Deplementation, D=Deplementatio	or secondary hydr ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to do latrix, CS=Cov	aeria dicato cume vered/0 100 f indic	ent the indicated Sand Color (Cators are I S5 - Sandy F S6 - Stripped F1 - Loamy N	evious insposerved. cator or cograins; Loca Moist) not presented a Matrix Mucky Miner	mottl Mottl // // // // // // // // // // // // /	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	uck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydr ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to do latrix, CS=Cov	aeria dicato cume vered/0 100 f indic	ent the indicoated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy C F2 - Loamy C F3 - Depleted	evious insposerved. cator or congrains; Loca Moist) not presented with the congrains of the congrain of the congra	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 Depressi ed Vertic	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 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	or secondary hydrone ibe to the depth neetion, RM=Reduced Marix Color (Moist) 2/1 4/1 Indicators (characters)	rological inconstruction received to do latrix, CS=Covered to do latrix, CS=Covered to l	aeria dicato cume vered/0 % 100 f indic F F F	ent the indicated Sand Color (Cators are in the second	evious insposerved. cator or congrains; Loca Moist) not presented with the congrains of the congrain of the congrains of the congrain of the congr	mottl Mottl % t):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressio	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-154n44w33-n1		
VEGETATIO		re non-native	species.)				
Tree Stratum	(Plot size: 30 ft. radius)						
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet		
1.	Populus tremuloides	50	Υ	FAC			
2.	Acer negundo	10	N	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)		
3.							
4.					Total Number of Dominant Species Across All Strata: 5 (B)		
5.							
					Decrease of Decrease Organics That Are ODL FACIAL as FAC: 40.00/		
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)		
7.	<u></u>						
8.					Prevalence Index Worksheet		
9.					Total % Cover of: Multiply by:		
10.					OBL spp 0		
	 Total Cover =	60			FACW spp. 0 x 2 = 0		
					FAC spp. 85 $x 3 = 255$		
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 55 $\times 4 = 220$		
		25		FAC	· · · ———		
1.	Populus tremuloides		I		UPL spp. 60 $x = 300$		
2.	Corylus americana	10	Υ	NI			
3.					Total 200 (A) 775 (B)		
4.							
5.					Prevalence Index = $B/A = 3.875$		
6.							
7.							
8.					Hydrophytic Vegetation Indicators:		
9.							
					Rapid Test for Hydrophytic Vegetation		
10.					Dominance Test is > 50%		
	Total Cover =	35			Prevalence Index is ≤ 3.0 *		
					Morphological Adaptations (Explain) *		
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *		
1.	Bromus inermis	50	Υ	UPL			
2.	Amphicarpaea bracteata	30	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be		
3.	Helianthus annuus	15	<u>.</u> N	FACU	present, unless disturbed or problematic.		
			N	FACU	·		
4.	Solidago canadensis	10	IN	FACU	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.							
					Herb - All herbaceous (non-woody) plants, regardless of size.		
12.					THEID - All Herbaceous (Horrwoody) plants, regardless of size.		
13.					4		
14.							
15.					Woody Vines - All woody vines, regardless of height.		
	Total Cover =	105					
							
Moody Vino S	tratum (Plot size: 30 ft. radius)						
_							
1.							
2.							
3.					Hydrophytic Vegetation Present?N		
5.							
4.							
	Total Cover =	0					
Remarks:	The upland sample point is dominated by sn		ne and Am	erican hoc	peanut.		
rtomanto.	The apiana cample point to definitated by en		io and 7 iii	onoun nog	gpoarrat.		
Additional I	Remarks:						