WETLAND DETERMINATION DATA FORM Great Plains Region

Drainat/Cita.		LOD								I Data:	00/20/44	
Project/Site: L3R Applicant: Enbridge									Date: County:	09/30/14 Pennington		
Investigators:				Subregion (MLRA or LRR): MLRA 56					State:	MN		
Soil Unit:	<u> </u>			NWI Classification:							IVII 4	
	Depression			Lo	cal Relief:					Sample Point:	w-153n44w12-a2	
	0 - 2%		Latitude: 48.08			-96.25662		Datum:]		
		nditions on the sit			Ir? (If no, exp				□ No	Section:		
Are Vegetation		□, or Hydrology	•			Are n	normal circun	•	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally pro	olematic?			Yes	□ No		Range:	Dir:	
SUMMARY O			Vac					Lludria Sai	la Dracont) V22		
Hydrophytic \ Wetland Hyd	•		Yes Yes					Hydric Soil		r Yes nt Within A W	etland? Yes	
Remarks:				d plants in a dra	ainage swale	in an agricult	tural field. Near					
wetland, with a small culvert under the field road. At this sample point, the wetland does not appear to be regularly tilled, however based on the appearance of vegetation on the cultivated field edge,												
		urbed from herbicide u	ise.									
HYDROLOGY												
		cators (Check all	I that apply; Mir	nimum of on	e primary o	or two seco	ondary requi	red):				
<u>Primary:</u> ☐ A1 - Surface Water					B11 - Salt C	Cruct			Secondary	<u>:</u> B6 - Surface S	Coll Crooks	
	A1 - Surface (A2 - High Wat				B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydrog	gen Sulfide (B10 - Drainage	e Patterns	
	B1 - Water Ma				C2 - Dry Se	eason Water	r Table	- · · · · · · · · · · · · · · · · · · ·		C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sediment			☐ C3 - Oxidized Rhizospheres on Living Roots (not tille☐☐ C4 - Presence of Reduced Iron☐☐							Burrows	
	B3 - Drift Dep B4 - Algal Mat					Ince of Reduc Nuck Surface			_ 	D2 - Geomorp	n Visible on Aerial Imagery hic Position	
	B5 - Iron Depo	osits			Other (Expl				_ ☑	D5 - FAC-Neu	tral Test	
		n Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observ												
Field Observ		¥2.	Danth		(in)							
Surface Water		Yes	Depth:		(in.)			Wetland F	lydrology	Present?	Υ	
Water Table		Yes \square	Depth:		(in.)						_	
Saturation Present? Yes Depth: (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
				ial photos, pre	• ` '	ections), if	available:					
Describe Reco		tream gauge, mon		ial photos, pre	• ` '	ections), if a	available:					
Remarks:				ial photos, pre	• ` '	pections), if a	available:					
Remarks:	Indicators of	f wetland hydrolog	gy are present.	ial photos, pre	evious insp	·		ndicators.)				
Remarks: SOILS Profile Descri	Indicators o		gy are present.	ial photos, pre	evious inspe	onfirm the a	absence of ir					
Remarks: SOILS Profile Descri	Indicators o	f wetland hydrolog	gy are present.	ial photos, pre	evious inspe	onfirm the a	absence of ir					
Remarks: SOILS Profile Descrip (Type: C=Concent	Indicators o	be to the depth neetion, RM=Reduced M	gy are present. eeded to docun	nent the indic	evious inspectator or co	onfirm the a tion: PL=Pore Mottles	absence of ir e Lining, M=Mati	rix)				
Remarks: SOILS Profile Descrip (Type: C=Concent	ption (Descri	be to the depth neetion, RM=Reduced M Matrix Color (Moist)	gy are present. eeded to docun latrix, CS=Covered	ial photos, pre	evious inspectator or co	onfirm the a	absence of ir e Lining, M=Mati		Texture		Remarks	
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Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-7 7-14	ption (Descrintration, D=Depleted Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 5/1	gy are present. eeded to docun latrix, CS=Covered % 100 95	nent the indicated Sand Color (N	cator or co Grains; Locati	onfirm the attion: PL=Pore Mottles %	absence of ir e Lining, M=Mati Type	Location M	SCL SCL	fine sandy fine sandy	Remarks	
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-7 7-14 14-18 NRCS Hydri	ption (Descriptration, D=Depleted Hue_10YR Hue_10YR Hue_2.5Y	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 7/2	gy are present. eeded to docun latrix, CS=Covered 100 95 98 heck here if ind	nent the indicators are not the indicators are not the indicators are not indicators.	cator or co Grains; Locati Moist) 3/6 6/6 not present	Mottles 5 2	absence of ir e Lining, M=Mati Type C C	Location M	SCL SCL FSL	fine sandy with pebbles for Problematic		
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: w-153n44w12-a2				
VEGETATIO	` ` '	e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 2 (B)				
5.					`` ,				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.					(742)				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. $\frac{31}{1}$ $\times 1 = \frac{31}{1}$				
	Total Cover =	0			FACW spp. 40				
					FAC spp. $\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$ 60				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 3 $x 4 = 12$				
1.					FAC spp. 20 $x = 3$ 60 FACU spp. 3 $x = 4$ 12 UPL spp. 0 $x = 5$ 0				
2.									
3.					Total 94 (A) 183 (B)				
4.					`` '`` '				
5.					Prevalence Index = B/A = 1.947				
6.					Trevalence mack = B// = 1.047				
7.									
					Under whatis Wagetetian Indicators.				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Persicaria maculosa	40	Υ	FACW					
2.	Juncus nodosus	20	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Plantago major	15	 N	FAC	present, unless disturbed or problematic.				
4.	Echinochloa crus-galli	5	N	FAC	Definitions of Vegetation Strata:				
5.		5	N	OBL	Definitions of Vegetation offata.				
	Bidens cernua				Tree				
6	Lycopus americanus	3	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.	Alisma triviale	3	N	OBL	neight (DBH), regardless of height.				
8.	Artemisia biennis	3	N	FACU					
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.									
15.					Woody Vines - All woody vines, regardless of height.				
10.	Total Cover =	0.4			Trody Villes nees, ragaranees or noisy in				
	Total Cover =	94	_						
14/	101 0 (DL 101 00 f)								
_	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?Y				
5.									
4.									
	Total Cover =	0							
Remarks:	A seasonally flooded basin dominated by lad	y's thumb	smartwee	d, knotted	rush, and annual wetland plants. Hydrophytic vegetation is present.				
				•					
Additional Pomarks:									
Additional Remarks:									