WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R								Date:	09/25/14
Applicant:		Enbridge			Cultura aila	/N/I D /	۱ مترا DD).	MIDAGO		County:	Pennington
Investigators		RAJ/BJC			_Subregic	•	A or LRR):	MLRA 56		State:	MN
Soil Unit: Landform:	I69A Rise			-	ocal Relief		I Classification			Comple Deint	: u-154n44w34-e5
Slope (%):	0 - 2%		titude: 48.11			-96.302	2301	Datum:	1		u-1541144W54-e5
. , ,		nditions on the site ty			_				□ No	Section:	
Are Vegetation			•	disturbed?	arr (ii iio, ox		e normal circur			Township:	
Are Vegetation			aturally pro			/ (1)	✓ Yes		0001111	Range:	Dir:
SUMMARY C			ateriany pro				_ 100	_ 110		r tanger	2
Hydrophytic \			No					Hvdric Soil	ls Present?	Yes	
Wetland Hyd			No		_					nt Within A W	etland? No
Remarks:		island consists of a m		land commu	unity domi	nated by	big bluestem a				
	•		J		•	,	J	J			
HYDROLOG	Υ										
		icators (Check all tha	at annly: Mi	nimum of or	ne nrimarv	or two s	econdary requi	red):			
Primary:	•	icators (Oneck all the	αι αρριγ, ινιι	illinani oi oi	ie primary	OI two 3	econdary requi	ied).	Secondary:	<u>.</u>	
<u> </u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqu						Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainag	
	B1 - Water M B2 - Sedimen				C2 - Dry S		ater Table spheres on Living	Poots (not till		C3 - Oxidized C8 - Crayfish	Rhizospheres on Living Roots (tilled
	B3 - Drift Dep	•					educed Iron	1700ts (Hot till	, –	•	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin					D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu	
		on Visible on Aerial Image	ery							D7 - Frost-He	aved Hummocks (LRR F)
	B9 - water-S	ained Leaves									
Field Observ	vatione:										
		Vec.	Danth		(in)						
Surface Water		Yes □ Yes □	Depth		_ (in.) _ (in.)			Wetland H	lydrology	Present?	N
Water Table		Yes □ Yes □	Depth		– (in.) (in.)						_
			·		<u> </u>						
Describe Reco	<u>`</u>	stream gauge, monitorii		ial photos, pr	<u> </u>	pections)	, if available:				
	<u>`</u>			ial photos, pr	<u> </u>	pections)	, if available:				
Describe Reco	<u>`</u>	stream gauge, monitorii		ial photos, pr	<u> </u>	pections),	, if available:				
Describe Reco	No indicato	stream gauge, monitorions of wetland hydrolog	gy are pres	ial photos, prent.	evious ins			adicators \			
Describe Reco Remarks: SOILS Profile Descri	No indicato	stream gauge, monitoring of wetland hydrologous be to the depth needs	gy are prese	ial photos, prent.	revious inspired	onfirm th	ne absence of ir				
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Describe Reco Remarks: SOILS Profile Descri	No indicato	stream gauge, monitoring of wetland hydrologous be to the depth needs etion, RM=Reduced Matrix,	gy are prese	ial photos, prent.	revious inspired	onfirm th	ne absence of ir Pore Lining, M=Mati				
Describe Reco Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	stream gauge, monitoring rs of wetland hydrologo be to the depth needs etion, RM=Reduced Matrix,	ed to docur	ial photos, prent. nent the ind	revious inspired icator or congressions; Locator or congressions; Locat	onfirm th ation: PL=P Mottl	ne absence of in Pore Lining, M=Mati	rix)	Texture		Remarks
Describe Reconstruction Remarks: SOILS Profile Descri (Type: C=Concert Depth (In.)	No indicato	stream gauge, monitorings rs of wetland hydrolog be to the depth neede etion, RM=Reduced Matrix, Matrix Color (Moist)	ed to docur	ial photos, prent.	revious inspired icator or congressions; Locator or congressions; Locat	onfirm th	ne absence of ir Pore Lining, M=Mati		Texture		Remarks
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Describe Record Remarks: SOILS Profile Descrit (Type: C=Concerd) Depth (In.) 0-8 8-18	No indicato iption (Description, D=Depl Hue_10YR Hue_10YR	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 5/1	ed to docur , CS=Covered % 100 100	ial photos, prent. nent the ind Coated Sand Color (icator or c Grains; Loca	onfirm thation: PL=P	ne absence of in Pore Lining, M=Mati	rix)	Texture C C	almost no chrom	
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Describe Reco	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth needeetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/1 Indicators (checken Sulfide	y are present and the present	ial photos, prent. nent the ind Color (Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F	revious inspections in a content of the content of	onfirm the ation: PL=P Mottl % nt):	e absence of in Pore Lining, M=Mati	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	a, 10YR 5/1 is best fit c Soils ¹ (LRR F, G, H)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w34-e5					
					•					
VEGETATIO	N (Species identified in all uppercase	are non-native	e species.)							
Tree Stratum	(Plot size: 30 ft. radius)									
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (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: 0.0% (A/B)					
7.					Tercent or borninant opecies that Are OBE, I AOW, OF I AO (A/B)					
					Drovolongo Indox Workshoot					
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.			OBL spp. 0							
	Total Cover	= 0	FACW spp. $0 X 2 = 0$							
					FAC spp. $\underline{\qquad}$ X $3 = \underline{\qquad}$ 15					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp95					
1.					UPL spp 0					
2.										
3.					Total 100 (A) 395 (B)					
4.										
5.					Prevalence Index = $B/A = 3.950$					
6.										
7.										
8.					Hydrophytic Vogotation Indicators:					
					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) *					
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Andropogon gerardii	60	Υ	FACU						
2.	Oligoneuron rigidum	15	N	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Solidago altissima	15	N	FACU	present, unless disturbed or problematic.					
4.	Cirsium flodmanii	5	N	FAC	Definitions of Vegetation Strata:					
5.	Symphyotrichum ericoides	5	N	FACU	. Dominiono or Vogotation otrata.					
6	Symphyotherium encodes	1		17.00	Tree - Westerlands (in (7.0 m)) or many in discounts at housest					
		1			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.					
7.	<u> </u>				- Height (BBH), regardless of Height.					
8.					BRU 191 - Was de plante lang than Cir. BRU as any lang of height					
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.					1					
14.										
15.					Woody Vines - All woody vines, regardless of height.					
<u> </u>	Total Cover	= 100								
	Total Cover									
Manda News	eratura (Diat airea: 20 ft are disea)									
vvoody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.	1									
3.					Hydrophytic Vegetation Present?N					
5.										
4.										
	Total Cover	= 0								
Remarks:	An upland community dominated by big blu	uestem and	goldenrods	s. Hydrop	hytic vegetation is not present.					
		,	90.0000	, op	The regulation is the present.					
<u> </u>										
Additional Remarks:										