WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14	
Applicant:		Enbridge			0.1	(A 41 D)	A 100)			County:	Pennington	
Investigators		BJC/RAJ			Subregic	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I55A				Land Dalla		I Classification	-			450440 -4	
Landform:	Footslope 3 - 7%		1 -4:41	204044	Local Relief		2700	Detuses		Sample Point 	u-153n44w2-e1	
Slope (%):		nditions on the site	Latitude: 48.			e: -96.272		Datum: ☑ Yes	□ No	Section:		
Are Vegetation	·		significan □				e normal circun			Township:		
Are Vegetation			□aturally p	•			e normal circuit ✓ Yes		CSCIII:	Range:	Dir:	
SUMMARY C			platurally p	robicinatio	, :		E 163	= 110		Range.	DII.	
			No					Hydric Soi	ls Present?	No		
Hydrophytic Vegetation Present? Wetland Hydrology Present?				No			Is This Sampling Point With				/etland? No	
Remarks:				assland d	ominated by b	oia bluest	tem. It is located					
Remarks: The upland sample point is located in a grassland dominated by big bluestem. It is located upslope of a Shrub-Carr community.												
HYDROLOG'	Υ											
		icators (Check all t	that annly:	Minimum (of one primary	or two s	econdary requi	red):				
Primary:	•	icators (Crieck all	шагарріу,	viii iii ii ii ii i	or one primary	or two s	secondary requi	ieu).	Secondary:			
<u> </u>	A1 - Surface	Water			□ B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				•	atic Fauna					Vegetated Concave Su	urface
	A3 - Saturation					ogen Sulfid				B10 - Drainag		5 ((())
	B1 - Water M B2 - Sedimer						ater Table spheres on Living	Poots (not till		C3 - Oxidized C8 - Crayfish	Rhizospheres on Living	g Roots (tilled)
	B3 - Drift Dep	•					educed Iron	NOOLS (HOL LIII	, –		on Visible on Aerial Imag	gerv
	B4 - Algal Ma					Muck Surf			_	D2 - Geomorp		90.9
	B5 - Iron Dep				□ Other (Ex	plain)				D5 - FAC-Neu		
		on Visible on Aerial Ima	agery							D7 - Frost-He	aved Hummocks (LRR	? F)
	B9 - water-S	tained Leaves										
Field Observ	vatione											
		Vac = □	Don	4h.	(in)							
Surface Water		Yes □ Yes □		th:	(in.)			Wetland F	lydrology l	Present?	N	
Water Table		Yes □ Yes □		th:	(in.) (in.)						_	
			<u>·</u>		` `							
	`	stream gauge, monit		erial photo	` `	pections)	, if available:					
Describe Reco	`	stream gauge, monit		erial photo	` `	pections)	, if available:					
Remarks:	`			erial photo	` `	pections)	, if available:					
Remarks:	No indicato	rs of wetland hydro	logy were o	erial photo bserved.	s, previous ins			adicators \				
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology were o	erial photo bserved.	s, previous ins	onfirm th	ne absence of ir					
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology were o	erial photo bserved.	s, previous ins	onfirm th	ne absence of ir					
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology were o	erial photo bserved.	s, previous ins	onfirm th	ne absence of ir Pore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	rs of wetland hydrological interests of the depth need to the depth need to the depth need to make the depth in the depth interests of th	ology were o	erial photo bserved. ument the	s, previous ins	onfirm thation: PL=P	ne absence of in Pore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	rs of wetland hydrological be to the depth need	eded to doc atrix, CS=Cove	erial photo bserved. ument the red/Coated S	s, previous ins	onfirm thation: PL=P	ne absence of ir Pore Lining, M=Matr	rix)			Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No indicato iption (Descriptration, D=Depl	be to the depth need to the de	eded to doc atrix, CS=Cove	erial photo bserved. ument the red/Coated S	s, previous ins	onfirm thation: PL=P	ne absence of in Pore Lining, M=Matr	rix)	Texture FSL FS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth need to the de	eded to doc atrix, CS=Cove	erial photo bserved. ument the red/Coated S	s, previous ins	onfirm thation: PL=P	ne absence of in Pore Lining, M=Matr	rix)	FSL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No indicato iption (Descriptration, D=Depl	be to the depth need to the de	eded to doc atrix, CS=Cove	erial photo bserved. ument the red/Coated S	s, previous ins	onfirm thation: PL=P	ne absence of in Pore Lining, M=Matr	rix)	FSL		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No indicato iption (Descriptration, D=Depl	be to the depth need to the de	eded to doc atrix, CS=Cove	erial photo bserved. ument the red/Coated S	s, previous ins	onfirm thation: PL=P	ne absence of in Pore Lining, M=Matr	rix)	FSL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18	No indicato iption (Descriptration, D=Depl Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 6/4	eded to doc atrix, CS=Cove	erial photo bserved. ument the red/Coated S	indicator or condicator (Moist)	Mottl	ne absence of in Pore Lining, M=Matr	rix)	FSL		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No indicato iption (Descriptration, D=Depl Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 6/4	eded to doc atrix, CS=Cove	erial photo bserved. ument the red/Coated S	indicator or of Sand Grains; Local Ior (Moist)	Mottl	ne absence of in Pore Lining, M=Matr les Type	Location	FSL FS Indicators f	for Problemati	ic Soils¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18	No indicato iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	matrix Color (Moist) 2/1 6/4 Indicators (che	eded to doc atrix, CS=Cove	erial photo bserved. ument the red/Coated S Co 0 0 0 S5 - Sar S6 - Stri	indicator or of Sand Grains; Local Ior (Moist) are not present on the present of	Mottl % nt):	ne absence of in Pore Lining, M=Matr les Type	Location	FSL FS Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	i c Soils¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	Matrix Color (Moist) 2/1 6/4 Indicators (checking)	eded to doc atrix, CS=Cove	erial photo bserved. ument the red/Coated S Co 0 0 0 ndicators a S5 - Sar S6 - Stri F1 - Loa	indicator or condicator or condicator or condicator or condicator or condicator or condicator (Moist) Ior (Moist) are not present of the condicator of condicator or con	mottl mation: PL=P Mottl mottl mottl mottl mottl	ne absence of in Pore Lining, M=Matr les Type	Location	FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox urface (LRR G)	ic Soils ¹ (LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n44w2-e1					
-										
VEGETATION Tree Stratum (N (Species identified in all uppercase are (Plot size: 30 ft. radius)	e non-native	species.)							
Tree Stratum (Species Name	% Cover	Dominant	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:(B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)					
7.					December 1					
8.					Prevalence Index Worksheet Total % Cover of: Multiply by:					
9. 10.					Total % Cover of: OBL spp. 5 × 1 – 5					
10.	Total Cover = 0				OBL spp. 5					
	1000 -		_		FAC spp. $\frac{10}{10}$ $\times 3 = \frac{30}{10}$					
Sapling/Shrub \$	Stratum (Plot size: 15 ft. radius)				FACU spp. 85 $\times 4 = 340$					
1.					UPL spp.					
2.										
3.					Total 100 (A) 375 (B)					
4.										
5.					Prevalence Index = B/A = 3.750					
6.					_					
7.										
8.					Hydrophytic Vegetation Indicators:					
9. 10.					Rapid Test for Hydrophytic Vegetation					
10.		0			Dominance Test is > 50% Prevalence Index is ≤ 3.0 *					
	10(4) 00001 -	<u> </u>	_							
Herh Stratum ((Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *					
1.	Andropogon gerardii	40	Υ	FACU	Floblem Hydrophytic Vegetation (Explain)					
2.	Fragaria virginiana	20	<u>'</u> Ү	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Trifolium repens	15	 N	FACU	present, unless disturbed or problematic.					
4.	Solidago altissima	10	N	FACU	Definitions of Vegetation Strata:					
5.	Solidago gigantea	10	N	FAC						
6	Carex granularis	5	N	OBL	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. 13.					Herp - All Herbaceous (Horr-woody) plants, regardless of size.					
14.										
15.				_	Woody Vines - All woody vines, regardless of height.					
10.	Total Cover =	100			l					
	Total Gover =	100	_							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present?N					
5.				,						
4.										
	Total Cover =		 							
Remarks:	The upland sample point is dominated by big	bluestem ر	and wild s	trawberry.						
Additional Remarks:										