WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/02/14	
Applicant:		Enbridge								County:	Marshall	
Investigators				Subregion (MLRA or LRR): MLRA					6	State:	MN	
Soil Unit:	157B			<u> </u>			I Classification:					
Landform:	Footslope		10.0		ocal Relief:					Sample Point:	<u>u-155n45w7-c5</u>	
Slope (%):	3 - 7%	. P.C	Latitude: 48.2		_	-96.495		<u>Datum:</u>				
		nditions on the site							□ No	Section:		
Are Vegetation		□, or Hydrology	•	•	•	Are	e normal circum	•	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally pr	oblematic?			Yes	□ No		Range:	Dir:	
SUMMARY C									L D	N		
Hydrophytic '	_		No No		<u> </u>				ls Present?		otlando Na	
	drology Prese		No No		t to the ovic	ation or or local	alina agusidas V			t Within A W		
Remarks:	rne upiano	point is located or	n a graduai si	ope adjacen	t to the exis	sting pipe	eline corridor. v	egetation is	aominated	by a mix or g	rasses.	
LIVERGLOO	V											
HYDROLOG	Y											
	•	icators (Check all	I that apply; N	linimum of c	ne primary	or two s	econdary requii	red):				
<u>Primary</u>	_					_			Secondary:			
	A1 - Surface				B11 - Salt					B6 - Surface S		iaaa
	A2 - High Wa A3 - Saturation				I B13 - Aqua I C1 - Hydro					B10 - Sparsely	Vegetated Concave Surf	ace
	B1 - Water M				C2 - Dry S						Rhizospheres on Living F	Roots (tilled)
	B2 - Sedimen						spheres on Living	Roots (not till	• 🗆	C8 - Crayfish E		(
	B3 - Drift Dep						educed Iron	•			n Visible on Aerial Image	ry
	B4 - Algal Ma				C7 - Thin I		ace			D2 - Geomorp		
	B5 - Iron Dep	osits on Visible on Aerial Im	aaan.		Other (Exp	olain)				D5 - FAC-Neut	tral Test aved Hummocks (LRR F)	1
		tained Leaves	lagery							D7 - F1051-F162	aved Hullillocks (LIXIX F)	,
_												
Field Obser	vations:											
Surface Wat	er Present?	Yes 🗆	Dept	h:	(in.)							
Water Table		Yes	Dept		— (in.)			Wetland F	lydrology l	Present?	N	
Saturation P		Yes	Dept		— (in.)							
					(1111./							
Dagariba Dag	anded Date /		<u> </u>			a a ation a \	if available.					
	<u> </u>	stream gauge, moni	itoring well, a	rial photos, p		pections),	, if available:					
Describe Rec Remarks:	<u> </u>		itoring well, a	rial photos, p		pections),	, if available:					
Remarks:	<u> </u>	stream gauge, moni	itoring well, a	rial photos, p		pections),	, if available:					
Remarks:	No indicato	stream gauge, moni	itoring well, acology were ob	erial photos, poserved.	orevious insp			odicators)				
Remarks: SOILS Profile Descri	No indicato	stream gauge, moning of wetland hydronic of wetland hydronic of the depth ne	itoring well, as ology were objected to docu	erial photos, poserved.	previous insp	onfirm th	e absence of in					
Remarks: SOILS Profile Descri	No indicato	stream gauge, moni	itoring well, as ology were objected to docu	erial photos, poserved.	previous insp	onfirm th	e absence of in					
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicato iption (Description, D=Deplementation, D=Deplementation) Hue_10YR	stream gauge, moning of wetland hydrous ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	itoring well, acology were objected to documentation, CS=Covers	crial photos, poserved. Iment the inced/Coated Sand Color Color dicators are	dicator or condicator or condi	onfirm thation: PL=P	e absence of in Fore Lining, M=Matr es Type	Location	FS Indicators f	or Problematic		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR 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	stream gauge, monitors of wetland hydrostic in Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral Mucky Peat or Peat (LR Cky Peat or Peat (LR) is stream of the st	itoring well, as ology were objected to documentation, CS=Covers and 100 meck here if in the control of the covers and the cov	crial photos, poserved. Iment the inded/Coated Sand Color Color Color Solution	mot present Mucky Miner Gleyed Matrix Dark Surfaced Dark Surfaced Depressions	monfirm the stion: PL=P Mottl % ation: PL=P	es Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High F18 - Reduct TF2 - Red PTF12 - Very Other (Explain Indicators of In	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S Ain in Remarks)	ESOIIS ¹ ELRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-155n45w7-c5					
VEGETATION (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 00101</u>	Dominaria	<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.	Total Cover -	0			OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 15 x 3 = 45 FACU spp. 70 x 4 = 280 UPL spp. 15 x 5 = 75					
	Total Cover =	0			FAC spp. $\frac{0}{15}$ $\times 2 = \frac{0}{15}$					
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACUSED 70 $\times 4 - 280$					
1.	Stratum (Fiot size. 15 it. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
2.					51 2 spp					
3.					Total 100 (A) 400 (B)					
4.					(=/					
5.					Prevalence Index = $B/A = 4.000$					
6.										
7.										
8.					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) *					
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Poa pratensis	25	Y	FACU	* In directors of booking and continued booking a continued by					
2.	Phleum pratense	25	Y	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
3.	Elymus repens	15	N	FACU	·					
4. 5.	Bromus inermis	15 15	N N	UPL FAC	Definitions of Vegetation Strata:					
6	Solidago gigantea Cirsium arvense	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Cirstum arverise	3	IN	TACO	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.										
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	100								
			_							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present?N					
5.										
4.	Total Cavar	0								
Remarks:	Total Cover = Vegetation is dominated by a mix of grasses									
Remarks.	vegetation is dominated by a mix or grasses	•								
\	Domarko.									
Additional R	Kemarks:									
1										