## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/04/14	
Applicant:		Enbridge								County:	Polk	
Investigators		JLS/SAM			Subregio	n (MLRA d		MLRA 56		State:	MN	
Soil Unit:	712						Classification	i:				
Landform:	Rise				cal Relief:		_			Sample Point:	u-150n40w24-e1	
Slope (%):	0 - 2%	nditions on the sit.	Latitude: 47.8			-95.7176		Datum				
	, ,	nditions on the site		,	If ? (If no, exp		<sup>(s)</sup> normal circur	⊡Yes		Section:		
Are Vegetati Are Vegetati	on L Soil	□ or Hydrology □ or Hydrology				Alei			esent	Township:	Die	
SUMMARY (				oblematic?						Range:	Dir:	
Hydrophytic			No					Hydric Soi	ils Present?	Vec		
	trology Prese		No							nt Within A W	etland? No	
Remarks:				aht rise within	an open	nasture S	oils contain i				ner wetland indicators	were
r tomanto.	observed.			grit noo mam				onornyano				Word
HYDROLOG	Y											
		instana (Chaoli all	l that an abu N	lining up of on				ine d) .				
Primary		icators (Check all	i that apply; iv	inimum of on	e primary	or two sec	condary requ	irea):	Secondary			
	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa	ter Table			B13 - Aqua	atic Fauna				B8 - Sparsely	Vegetated Concave Surfa	ice
	A3 - Saturatio					gen Sulfide						a ata (tilla al)
	B1 - Water M B2 - Sedimen					eason Wate red Rhizosp	heres on Living	Roots (not til		C3 - Oxidized C8 - Crayfish E	Rhizospheres on Living R Burrows	oots (tilled)
	B3 - Drift Dep	osits				nce of Redu		,		C9 - Saturation	Visible on Aerial Imager	у
	B4 - Algal Ma					/luck Surfac	e					
	B5 - Iron Dep	osits In Visible on Aerial Im	agen		Other (Exp	lain)				D5 - FAC-Neu	tral Test aved Hummocks (LRR F)	
	B9 - Water-Si		lagery							D7 - FIOSI-FIE		
Field Obser	vations:											
Surface Wat	er Present?	Yes 🛛	Dept	n:	(in.)			M - 411 1	1	<b>D</b>	N	
Water Table	Present?	Yes 🗍	Dept	n:				Wetland H	Hydrology	Present?	Ν	
Saturation P	resent?	Yes 🛛	Dept									
outaration	rooont.		Dept	I	(in.)							
					. ,	ections) if	available:					
Describe Rec	orded Data (s	stream gauge, moni	itoring well, ae	rial photos, pre	evious insp	-	available:					
	orded Data (s		itoring well, ae	rial photos, pre	evious insp	-	available:					
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Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-12 12-16 16-22 NRCS Hydr	Al- Histosol Al- Sandy M Sl- Sandy M Sl- Sandy G	stream gauge, moni or secondary indice be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 5/1 5/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR	eeded to docu atrix, CS=Covers % 100 90 98 neck here if ir	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F1 - High Pla	Avious insp were obs cator or co Grains; Loca Moist) 4/6 4/6 4/6 4/6 4/6 4/6 4/6 4/6	erved.	absence of i e Lining, M=Mat Type C C	I Location M M M Location	CL CL C A9 - 1 cm N A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetal	2 <u>Soils<sup>1</sup></u> LRR F, G, H) XNS (LRR H, outside MLRA 72, 73) Gurface	st be present,
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Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-12 12-16 16-22 NRCS Hydr	Al- Histosol Al- Sold Al- Histosol Al- Sandy M Sla - Sandy M Sla - Sandy G Sla - S	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 5/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR)	ee E E RR G, H) R F)	iment the india and hydrology iment the india ad/Coated Sand ( Color (I Hue_5YR Hue_5YR Hue_5YR Gicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F2 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	Avious insp were obs cator or cc Grains; Loca Avio 4/6 4/6 4/6 4/6 4/6 4/6 4/6 4/6	erved.	absence of i e Lining, M=Mat Type C C C	rix) Location M M M Location	CL CL C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High f F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressid ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetal ed or problematic.	2 <u>Soils<sup>1</sup></u> LRR F, G, H) XNS (LRR H, outside MLRA 72, 73) Gurface	st be present,

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-150n40w24-e1
		e non-native	species.)		
Tree Stratum (	(Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>/0 00001</u>	Dominant	<u></u>	
2.	-				Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (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.					OBL spp. 0 x 1 = 0
	Total Cover =	0	_		FACW spp. 15 x 2 = 30
Capling/Chrub (					FAC spp. 5 $x 3 = 15$
Sapiing/Shrub : 1.	Stratum (Plot size: 15 ft. radius) Rhamnus cathartica	5	Y	FACU	FACU spp. <u>50</u> x 4 = <u>200</u> UPL spp. <u>55</u> x 5 = <u>275</u>
2.		5		TAGO	-275
3.					Total 125 (A) 520 (B)
4.					
5.					Prevalence Index = B/A = 4.160
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	5	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
· · · · ·	Plot size: 5 ft. radius) Bromus inermis		V		Problem Hydrophytic Vegetation (Explain) *
1. 2.		50	Y Y	UPL FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Poa pratensis Solidago canadensis	20 10	N T	FACU	present, unless disturbed or problematic.
4.	Euthamia graminifolia	10	N	FACW	Definitions of Vegetation Strata:
5.	Galium boreale	10	N	FACU	Demittoris of Vegetation Otrata.
6	Pycnanthemum virginianum	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Fragaria virginiana	5	N	FACU	height (DBH), regardless of height.
8.	Agrostis gigantea	5	N	FACW	
9.	Carduus acanthoides	5	Ν	NI	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 =	120			
Manda Marco					
Woody Vine St 1.	ratum (Plot size: 30 ft. radius)				
2.	<u> </u>				
3.					Hydrophytic Vegetation Present? N
5.	<u> </u>				
4.	·				
	Total Cover =	0			
Remarks:		Kentucky I	oluegrass.	. The area	gradually transitions downslope into a Shrub-Carr community.
Additional F	Remarks:				
E					