WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14	_
Applicant: Enbridge											Marshall	_
Investigators	•			Subregion (MLRA or LRR): MLRA 56						State:	MN	_
Soil Unit:	165A			<u> </u>			I Classification	PEMCd				
Landform:	Depression		10.4		ocal Relief		1.150			Sample Point	:: w-155n46w2-f3	
Slope (%):	0 - 2%	1949 - dl - 94	Latitude: 48.2		Longitude			Datum:		4		
		nditions on the site			ear? (If no, ex				□ No	Section:		
Are Vegetation		□, or Hydrology	•	•		Are	e normal circun	-	esent?	Township:		
Are Vegetation		□, or Hydrology	Liaturally p	roblematic?			Yes	□ No		Range:	Dir:	
SUMMARY (V					Lludria Cai	la Duaganto) Vaa		
Hydrophytic '			Yes		_				Is Present?		Intlando Vac	
	drology Prese		Yes	برم الثرير برم طلم مرد			************************			nt Within A W		havea
Remarks:		arr community don	•				•					nows a
HVDDOLGO	•	hrough this wetlan	a complex v	ery near this	point; after	thoroug	nly searching tr	ne wetland a	area, no wa	terbody was	rouna.	
HYDROLOG												
Wetland Hy Primary	•	icators (Check all	that apply; N	Minimum of o	ne primary	or two s	econdary requi	red):	Secondary	:		
	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave	Surface
	A3 - Saturation B1 - Water M				C1 - Hydro					B10 - Drainag		ing Poots (tilled)
	B2 - Sedimen				C2 - Dry S		spheres on Living	Roots (not till	- € □	C8 - Crayfish	Rhizospheres on Livi Burrows	ing Roots (tilled)
	B3 - Drift Dep	•					educed Iron	rtooto (not tiii	ì	•	n Visible on Aerial Im	agery
	B4 - Algal Ma	t or Crust			C7 - Thin I	Muck Surfa	ace		✓	D2 - Geomorp	ohic Position	3 ,
	B5 - Iron Dep			☐ Other (Explain) ☐ D5 - FAC-Neutral Test								.D. E')
		on Visible on Aerial Im tained Leaves	agery							D7 - Frost-He	aved Hummocks (LR	(RF)
V	D9 - Water-S	lailled Leaves										
Field Obser	vations:											
Surface Wat		Yes	Dep	th·	(in.)							
Water Table		Yes	Dep		– (in.)			Wetland F	Hydrology	Present?	Υ	
Saturation P		Yes	Dep		_ ` ′							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Deceribe Dec	anded Deta (e		<u> </u>		(in.)	ti \	if eveilable.					
	<u> </u>	stream gauge, moni	toring well, a	erial photos, p	revious insp		-					
Describe Rec Remarks:	<u> </u>		toring well, a	erial photos, p	revious insp		-	v it.				
Remarks:	<u> </u>	stream gauge, moni	toring well, a	erial photos, p	revious insp		-	v it.				
Remarks:	The wetland	stream gauge, moni d has a thick layer	itoring well, a	erial photos, p	revious inspout with wa	ter-stain	ed leaves belov					
Remarks: SOILS Profile Descri	The wetland	stream gauge, moni	of wetland m	erial photos, p	revious inspout with wa	ter-staine	ed leaves below	ndicators.)				
Remarks: SOILS Profile Descri	The wetland	stream gauge, moni d has a thick layer	of wetland m	erial photos, p noss throughouse	revious inspout with wa	ter-staine	ed leaves below	ndicators.)				
Remarks: SOILS Profile Descri	The wetland	stream gauge, moni	of wetland m	erial photos, p noss throughouse	revious inspout with wa	ter-staine	ed leaves below the absence of in Pore Lining, M=Mati	ndicators.)				
Remarks: SOILS Profile Descri	The wetland	stream gauge, moning that a thick layer la	of wetland m	erial photos, p noss throughoument the incomed	revious inspout with wa	ter-staine onfirm th	ed leaves below the absence of in Pore Lining, M=Mati	ndicators.)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	stream gauge, monical has a thick layer be to the depth ne etion, RM=Reduced Marix Color (Moist)	of wetland medecated to docatrix, CS=Cover	erial photos, phoss throughout the income ded/Coated Sand	revious inspout with wa	onfirm th	ed leaves below the absence of in Pore Lining, M=Mati	ndicators.)	Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	stream gauge, monical has a thick layer be to the depth negation, RM=Reduced Matrix Color (Moist) 2/1 5/1 Indicators (chaine)	eeded to docatrix, CS=Cover	color Color Hue_10YI S5 - Sandy S6 - Strippe F1 - Loamy	revious inspout with was licator or configurations; Local (Moist) R 3/2 not preserved Matrix Mucky Miner	onfirm the tion: PL=P Mottl % 30 at):	ed leaves belowere absence of in Pore Lining, M=Matro	Location M	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G)	ic Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-13 13-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	stream gauge, monical has a thick layer be to the depth negation, RM=Reduced Marx Matrix Color (Moist) 2/1 5/1 Indicators (chain in Sulfide	eeded to docatrix, CS=Cover	color Color Hue_10YI S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy	revious inspout with was licator or configurations; Local (Moist) R 3/2 not preserved Matrix Mucky Miner Gleyed Matrix	onfirm the tion: PL=P Mottl % 30 at):	ed leaves belowere absence of in Pore Lining, M=Matro	Location M	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemati Muck (LRR I, J) t Prairie Redox Jurface (LRR G)	ed matrix. ic Soils ¹ (LRR F, G, H)	2, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	stream gauge, monical has a thick layer be to the depth neglighted Matrix Color (Moist) 2/1 5/1 Indicators (chain sulfide Layers (LRR F)	eeded to docatrix, CS=Cover	color Color Hue_10YI S6 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete	revious inspout with was licator or configurations; Local (Moist) R 3/2 not preserved Matrix Mucky Miner Gleyed Matrix di Matrix di Matrix	onfirm the tion: PL=P Mottl % 30 attribute:	ed leaves belowere absence of in Pore Lining, M=Matro	Location M	Indicators A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduce	for Problemati Muck (LRR I, J) It Prairie Redox Jurface (LRR G) Plains Depressi Ced Vertic	ic Soils ¹ (LRR F, G, H)	2, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n46w2-f3				
					•				
VEGETATION	` ` '	re non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius)				Deminerac Test Montreless				
4	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1. 2.					Number of Deminent Species that are ORL EACIN or EAC.				
					Number of Dominant Species that are OBL, FACW, or FAC:(A)				
3.					Total Number of Densinant Opening Assess All Objects				
4.					Total Number of Dominant Species Across All Strata: 2 (B)				
5.					- 100 00((A/D)				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.					Dravalanaa laday Warkakaat				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.	Tatal Cause				OBL spp. 17				
	Total Cover =	= 0			FACVV spp.				
0 11 /01 1 /	0 (DL				FACW spp. 165 X $2 =$ 330 FAC spp. 0 X $3 =$ 0 FACU spp. 2 X $4 =$ 8 UPL spp. 0 X $5 =$ 0				
	Stratum (Plot size: 15 ft. radius)	70	Υ	E A C \ A /	FACU spp. 2 X 4 = 8				
1.	Salix interior	70		FACW	$UPL spp. \underline{\qquad \qquad 0 \qquad \qquad } X S = \underline{\qquad \qquad 0 \qquad }$				
2.	Salix amygdaloides	20	N	FACW	T. (1) (0) (0)				
3.	Salix discolor	20	N	FACW	Total 184 (A) 355 (B)				
4.									
5.					Prevalence Index = B/A = 1.929				
6.									
7.					H. Lord W. Marshall and Product				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.		440			X Dominance Test is > 50%				
	Total Cover =	110	_		X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	50	Υ	FACW					
2.	Carex utriculata	10	N	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Lycopus asper	5	N	OBL	present, unless disturbed or problematic.				
4.	Poa palustris	5	N	FACW	Definitions of Vegetation Strata:				
5.	Lycopus americanus	2	N	OBL					
6	Cirsium arvense	2	N	FACU	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.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	74							
Woody Vine Sti	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =	0							
Remarks:	A Shrub-Carr community dominated by sand		and reed	canary dra	ass. Hydrophytic vegetation is present.				
Additional D	Pomarke:								
Additional R	Additional Remarks:								