WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/25/14						
Applicant:	Enbridge									County:	Marshall						
Investigators				Subregion (MLRA or LRR): MLRA 56						State:	MN						
Soil Unit:	1707A		NWI Classification: PEMC					_									
Landform:	Depression		40.4		cal Relief:		_			Sample Point:	w-154n45w2-e1						
Slope (%):	8 - 15%		Latitude: 48.1			-96.400815		Datum:	m. N								
		nditions on the site			ar? (If no, exp				□ No	Section:							
Are Vegetation		□, or Hydrology	•			Are no	ormal circun	-	esent?	Township:							
Are Vegetation		□, or Hydrology	Daturally pr	oblematic?			Yes	□ No		Range:	Dir:						
SUMMARY C									D 10	\							
Hydrophytic \	_		Yes		_				s Present?		(I IO V.)						
Wetland Hyd			Yes		C 1 1 24	Part .				t Within A We							
Remarks:				-		_	-	-			ation throughout the wetland is						
	•	ow-leaved cattail a	and a small a	mount of nort	hern water	r-plantain. M	/lost vegetat	ion has bee	n killed off l	by herbicide.							
HYDROLOG'	Y																
Wetland Hy	drology Indi	icators (Check all	I that apply; M	linimum of or	ne primary	or two seco	ndary requi	red):									
Primary:		•					, ,	•	Secondary:								
	A1 - Surface \				B11 - Salt (✓	B6 - Surface S							
	A2 - High Wat				B13 - Aqua		N =1 =				Vegetated Concave Surface						
	A3 - Saturatio B1 - Water Ma					gen Sulfide C eason Water				B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)						
	B2 - Sedimen				•		eres on Living	Roots (not till		C8 - Crayfish E							
	B3 - Drift Dep	•				nce of Reduc		110013 (1101 1111		•	Note:						
_	B4 - Algal Mat			_		/luck Surface			✓	D2 - Geomorpi							
	B5 - Iron Depo	osits			Other (Expl	lain)			✓	D5 - FAC-Neut							
		n Visible on Aerial Im	nagery							D7 - Frost-Hea	ved Hummocks (LRR F)						
	B9 - Water-St	ained Leaves															
Field Observ																	
Surface Wate	er Present?	Yes □	Dept	າ:	_ (in.)			Wetland H	lydrology l	Present?	Υ						
Water Table	Present?	Yes □	Dept	າ:	_ (in.)		Water Table Present? Yes Depth: (in.) Wetland Hydrology Present? Y										
Saturation Present? Yes Depth: 0 (in.)																	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																	
Describe Reco	orded Data (s		<u> </u>		<u> </u>	ections), if a	available:										
	<u>`</u>	stream gauge, moni	itoring well, ae	rial photos, pi	evious insp		available:										
Describe Reco	<u>`</u>		itoring well, ae	rial photos, pi	evious insp		available:										
Remarks:	<u>`</u>	stream gauge, moni	itoring well, ae	rial photos, pi	evious insp		available:										
Remarks:	Soils are sa	stream gauge, moni turated at the surf	itoring well, ae	rial photos, proceeding is pr	revious insp	ughout.		dicators.)									
Remarks: SOILS Profile Descri	Soils are sa	stream gauge, moni	itoring well, ae	rial photos, proceeding is proceeding is proceeding in the individual control of the individual	evious inspresent throust	ughout.	bsence of ir										
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-25	Soils are sa	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 2/1	itoring well, action and soil of the soil	rial photos, procracking is procracking is procreduled. ment the inded/Coated Sand Color (esent throusinspector or conficator or conficator or conficator or confications; Locat	onfirm the a tion: PL=Pore Mottles	bsence of in Lining, M=Matr	ix)	M C								
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-25 NRCS Hydr	Soils are sa ption (Descriptration, D=Deplete Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 2/1 Indicators (characters)	itoring well, action and soil of the soil	rial photos, procracking is procracking is proceed and ed/Coated Sand Color (a) dicators are S5 - Sandy F S6 - Stripped	revious insperesent throusesent through the second through the second through the second throusesent through the second through the secon	montion: PL=Pore Mottles % tion: Date of the process of the pro	bsence of in Lining, M=Matr	Location	M C Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (: Soils ¹						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-25 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M	turated at the surface to the depth need to the	itoring well, action and soil of the soil	rial photos, procracking is procracking is procracking is proceed. Color (a) Color (b) dicators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete	revious insperesent throusesent throusesent throusesent throusesent throusesent (Moist) Moist) Moist) Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface d Dark Surface	mottles Mottles w tion: PL=Pore	bsence of in Lining, M=Matr	Location	M C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressiced Vertic arent Material Shallow Dark S	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)						
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-154n45w2-e1				
					•				
VEGETATIO	N (Species identified in all uppercase a	re 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: 3 (A)				
3.									
4.		1			Total Number of Dominant Species Across All Strata: 3 (B)				
5.		-			` ` /				
6.		1			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.	<u></u>	<u> </u>			(77B)				
8.	J	1			Prevalence Index Worksheet				
		1			Total 0/ Cavar of:				
9.					Total % Cover of: Multiply by:				
10.	Total Course				OBL spp. 40				
	Total Cover =	=0	FACW spp. 0						
					FAC spp. $0 \times 3 = 0$				
	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 X 4 = 0$				
1.					UPL spp. $0 X 5 = 0$				
2.									
3.					Total 40 (A) (B)				
4.									
5.					Prevalence Index = $B/A = 1.000$				
6.		1							
7.									
8.					Hydrophytic Vegetation Indicators:				
9.		-			Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
10.	 Total Cover =				X Prevalence Index is ≤ 3.0 *				
	Total Cover -								
					Morphological Adaptations (Explain) *				
	Plot size: 5 ft. radius)			0.01	Problem Hydrophytic Vegetation (Explain) *				
1.	Typha angustifolia	15	Y	OBL					
2.	Alisma triviale	15	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Eleocharis acicularis	10	Υ	OBL	present, unless disturbed or problematic.				
4.					Definitions of Vegetation Strata:				
5.									
6					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.					1				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
					Herb - All Horbaccous (Horr woody) plants, regardless of size.				
13.					4				
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	= 40							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
T.	Total Cover :	= 0							
Pomarke:			ory charca	amounte (of narrow-leaf cattail, needle spikerush, and northern water-plantain. The vegetation				
Remarks:			ery sparse	amounts	on narrow-lear cattair, needle spikerush, and northern water-plantain. The vegetation				
	appears to have been treated with herbicide	j.							
Additional Remarks:									