WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R								Date:	09/22/14
Applicant:		Enbridge								County:	Marshall
Investigators		NTT/BEH/BJC		Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit:	I24A					NWI (Classification:				
Landform:										Sample Point	w-155n46w2-l1
Slope (%):	8 - 15%		Latitude: 48.2	273261	Longitude:	-96.52217	76	Datum:			
		onditions on the site			v				□ No	Section:	
Are Vegetati	• •	il □, or Hydrology					normal circum			Township:	
0	•	, , , , , , , , , , , , , , , , , , , ,	•			AICI		•	556111	•	Dim
		il □, or Hydrology	Liaturally p	oblematic?			☑ Yes	□ No		Range:	Dir:
SUMMARY (
Hydrophytic	-		Yes		_				s Present?		
Wetland Hyd	drology Pres	ent?	Yes					Is This Sar	npling Poin	t Within A W	etland? Yes
Remarks:	The wetlan	d is a wet meadow	located with	in a roadside	ditch and do	ominated	l by big bluest	em and prai	irie cord gra	ass.	
							, ,		Ŭ		
HYDROLOG	2V										
Wetland Hy	ydrology Inc	dicators (Check all	that apply; N	/linimum of or	ne primary o	or two sec	condary requii	ed):			
Primary	<u>/:</u>								Secondary:		
	A1 - Surface				B11 - Salt C					B6 - Surface S	
	A2 - High Wa		B13 - Aquat		_			• •	Vegetated Concave Surface		
					C1 - Hydrog					B10 - Drainag	
	B1 - Water N				C2 - Dry Sea						Rhizospheres on Living Roots (tilled)
	B2 - Sedime	•					heres on Living	Roots (not till	¢ 🗆	C8 - Crayfish I	
	B3 - Drift De	•			C4 - Presen						n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin Mu		e			D2 - Geomorp	
	B5 - Iron Dep				Other (Expla	ain)				D5 - FAC-Neu	
		on Visible on Aerial Ima	agery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	Stained Leaves									
Field Obser	vations:										
Surface Wat	ter Present?	Yes 🛛	Dept	th:	(in.)					D wa a a w 10	V
Water Table		Yes 🛛	Dept		(in.)			wetland H	lydrology l	Present?	Y
		Yes 🗆	•		_ (in.)						
Saturation Present? Yes Depth: (in.)											
Describe Rec	corded Data ((stream gauge, monit	toring well, a	erial photos, pr	evious inspe	ections), if	available:				
Describe Rec Remarks:			-		-			dscape pos	ition and ve	egetation.	
		(stream gauge, monit hydrology indicator	-		-			dscape pos	ition and ve	egetation.	
Remarks:			-		-			dscape pos	ition and ve	egetation.	
Remarks: SOILS	No primary	v hydrology indicator	rs are prese	nt. Wetland h	ydrology is a	assumed	based on lan		ition and ve	egetation.	
Remarks: SOILS Profile Descr	No primary		rs are prese	nt. Wetland h	ydrology is a	assumed	based on lan absence of in	dicators.)	ition and ve	egetation.	
Remarks: SOILS Profile Descr	No primary	ribe to the depth nee	rs are prese	nt. Wetland h	ydrology is a	assumed	based on lan absence of in	dicators.)	ition and ve	egetation.	
Remarks: SOILS Profile Descr	No primary	ribe to the depth neo	rs are prese	nt. Wetland h	ydrology is a	assumed nfirm the on: PL=Pore	based on lan absence of in e Lining, M=Matr	dicators.)	ition and ve	egetation.	
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	ribe to the depth net pletion, RM=Reduced Ma	eded to docu	nt. Wetland h	ydrology is a icator or cor Grains; Locatio	assumed nfirm the on: PL=Pore Mottles	based on lan absence of in e Lining, M=Matr	dicators.)		egetation.	Pomorko
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hyde U	No primary	ribe to the depth neo pletion, RM=Reduced Ma Matrix Color (Moist) d Indicators (cho pipedon istic	eded to docu atrix, CS=Cover	nt. Wetland h	vdrology is a icator or cor Grains; Locatio Moist) Moist) not present) Redox Matrix Mucky Mineral	assumed nfirm the on: PL=Pore Mottles %	based on lan absence of in e Lining, M=Matr S Type	dicators.)	Texture Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	or Problemation uck (LRR I, J) Prairie Redox of urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n46w2-l1
VEGETATIO		are non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.		-			Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 20 x 1 = 20
	Total Cover:	=0	FACW spp. 85 X $2 = 170$		
					FACW spp. 85 x $2 =$ 170 FAC spp. 0 x $3 =$ 0 FACU spp. 0 x $4 =$ 0
	Stratum (Plot size: 15 ft. radius)	_			$FACU \text{ spp.} 0 \qquad X \ 4 = 0$
1.					UPL spp. 0 $x 5 = 0$
2.					
3.					Total <u>105</u> (A) <u>190</u> (B)
4.					
5.					Prevalence Index = B/A = <u>1.810</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover:	= 0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Spartina pectinata	40	Y	FACW	
2.	Phalaris arundinacea	25	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Typha angustifolia	20	N	OBL	present, unless disturbed or problematic.
4.	Calamagrostis canadensis	10	N	FACW	Definitions of Vegetation Strata:
5.	Juncus torreyi	10	N	FACW	
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.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.	1				
15.	1				Woody Vines - All woody vines, regardless of height.
	Total Cover:	= 105			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover :	= 0			
Remarks:	The wetland vegetation is dominated by pra	airie cord gr	ass and re	ed canary	/ grass.
		-		-	
Additional F	Remarks:				