WETLAND DETERMINATION DATA FORM Great Plains Region

Proiect/Site:		L3R								Date:	07/30/14	
Applicant:		Enbridge								County:	Marshall	
Investigators	5:	NTT/KRG		Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	123A					NW	I Classification:			1		
Landform:	Depression			Lo	cal Relief:	CL				Sample Point	w-157n47w21-b1	
Slope (%):	8 - 15%	L	_atitude: 48.40	9426	Longitude:	-96.715	092	Datum:				
Are climatic/	hydrologic cc	onditions on the site	typical for thi	s time of yea	ar? (If no, exp	plain in rema	arks)	⊠ Yes	□ No	Section:		
Are Vegetati	on 🛛 Soi	□, or Hydrology 1	□significantly	disturbed?		Are	e normal circum	nstances pre	esent?	Township:		
Are Vegetati	on 🛛 Soi	□, or Hydrology □	□aturally prol	blematic?			☑ Yes	□ No		Range:	Dir:	
SUMMARY (S										
Hydrophytic	Vegetation P	resent?	Yes		_			Hydric Soil	s Present?	Yes		
Wetland Hyd	Irology Prese	ent?	Yes					Is This Sar	npling Poin	it Within A W	/etland? Yes	
Remarks:	The wetland	d is a fresh wet mea	dow located	within a road	dside ditch	and dor	minated by Pha	laris arundir	nacea.			
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all t	hat apply; Mi	nimum of on	e primary	or two se	econdary requi	ed):				
Primary	<u>:</u>				- - ···· /				Secondary:			
	A1 - Surface	Water			B11 - Salt (Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa	ter Table			B13 - Aqua	atic Fauna				B8 - Sparsely	Vegetated Concave Surface	
	A3 - Saturatio	n arka			C1 - Hydro	gen Sulfid	le Odor	Odor 🛛			B10 - Drainage Patterns	
	B1 - Water M B2 - Sedimer	arks It Deposits			C2 - Dry Se C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not tille	с П	C8 - Cravfish	Rurrows	
	B3 - Drift Dep	osits			C4 - Prese	nce of Re	duced Iron			C9 - Saturatio	n Visible on Aerial Imagery	
	B4 - Algal Ma	t or Crust			C7 - Thin N	/luck Surfa	ace			D2 - Geomorp	phic Position	
	B5 - Iron Dep	osits			Other (Exp	lain)			\checkmark	D5 - FAC-Neu	utral Test	
	B7 - Inundatio	on Visible on Aerial Ima	gery							D7 - Frost-He	aved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves										
Field Obser	vations:	× –		4	$(1, z_{1})$							
Surface Wat	er Present?	Yes 🗹	Depth:	4	_ (IN.)			Wetland H	ydrology	Present?	Y	
Water Table	Present?	Yes D	Depth:		_ (in.)				,			
Saturation P	resent?	Yes 🗆	Depth:		_ (in.)							
Deceribe Dec	orded Data (ring well oori	- 1 - 1 1								
Describe Rec		stream gauge, monito	ning weil, aen	al photos, pr	evious insp	ections),	if available:					
Remarks:	The wetland	d is covered with rou	ughly four inc	al photos, pr	evious insp ling water	ections), throughc	if available: out.					
Remarks:	The wetland	d is covered with rou	ughly four inc	al photos, pr hes of stanc	evious insp ling water t	ections), throughc	if available: out.					
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-157n47w21-b1
	(Species identified in all uppercase are	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind Status	Dominance Test Worksheet
1	<u>Species Name</u>		Dominant	<u>Inu.Status</u>	
2					Number of Dominant Species that are OBL_EACW_or EAC' 2 (A)
3.					
4.	J				Total Number of Dominant Species Across All Strata: 2 (B)
5					
6					Percent of Dominant Species That Are OBL FACW, or FAC: 100.0% (A/B)
7.					
8.	J				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 45 x 1 = 45
		0			FACW spp. 50 x 2 = 100
	_				FAC spp. 0 $x 3 = 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
1.					UPL spp. 0 $x 5 = 0$
2.					
3.					Total <u>95</u> (A) <u>145</u> (B)
4.					
5.					Prevalence Index = $B/A = 1.526$
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) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	50	Y	FACW	
2.	Eleocharis palustris	25	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Alisma triviale	10	Ν	OBL	present, unless disturbed or problematic.
4.	Typha angustifolia	5	Ν	OBL	Definitions of Vegetation Strata:
5.	Beckmannia syzigachne	5	Ν	OBL	
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.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	95			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?
5.					
4.	Tatal Oaver	0			
Domorka	= 19VOJ IBJOI		lingene wit	h other b	vdrophytic plante mixed in
Remarks:	The wettand vegetation is dominated by Phala	ans arund	inacea Wit	in other hy	yorophytic plants mixed in.
ļ					
Additional F	Remarks:				