WETLAND DETERMINATION DATA FORM Great Plains Region

		I								т		
Project/Site:		L3R								Date:	08/01/14	
Applicant:		Enbridge				<i>(</i>	\	=		County:	Marshall	
Investigators		NTT/KRG			Subregion	n (MLRA or	•	MLRA 56		State:	MN	
Soil Unit:	I24A						assification				W 455 . 40 . 0 . 14	
Landform:	Depression		40.07		cal Relief:					Sample Point:	W-155n46w2-d1	
Slope (%):	8 - 15%		itude: 48.27			-96.522178		Datum:				
		nditions on the site typ			ar? (If no, exp				□ No	Section:		
Are Vegetation			ignificantly			Are no		nstances pro	esent?	Township:	<u>.</u> .	
Are Vegetation			aturally prob	piematic?			Yes	□ No		Range:	Dir:	
SUMMARY C									L D	V		
Hydrophytic \	_		Yes		-				Is Present?		vila valo Vaa	
Wetland Hyd			Yes	101.1	1.2.1. 126.1					t Within A We		
Remarks:	The wetland	d is a fresh wet meado	ow located v	within a road	iside ditch	and domina	ated by reed	d canary gra	ass and prai	irie cord grass	.	
HYDROLOG'	Υ											
Wetland Hy	drology Ind	icators (Check all tha	it apply; Mir	nimum of on	e primary	or two seco	ndary requi	red):				
<u>Primary:</u>	_	·						•	Secondary:			
	A1 - Surface				B11 - Salt (B6 - Surface S		
	A2 - High Wa				B13 - Aqua		\ do "				/egetated Concave Surface	
	A3 - Saturation B1 - Water M					gen Sulfide O eason Water				B10 - Drainage	Rhizospheres on Living Roots (ti	illed)
	B2 - Sedimen					zed Rhizosphe		Roots (not till	le 🗆	C8 - Crayfish E		illou)
	B3 - Drift Dep	•				ence of Reduc		,		-	Visible on Aerial Imagery	
	B4 - Algal Ma					Muck Surface			☑	D2 - Geomorph		
	B5 - Iron Dep				Other (Exp	olain)			☑	D5 - FAC-Neut		
		on Visible on Aerial Image tained Leaves	гу						П	D7 - Frost-nea	ved Hummocks (LRR F)	
	D3 - Water-S	diffed Leaves										
Field Observ	vations:											
		Voc. □	Donth		(in)							
Surface Water		Yes □ Yes □	Depth:		(in.)			Wetland F	lydrology l	Present?	Υ	
Water Table			Depth:	_	. (in.) . (in.)							
Saturation P	resent?	Yes ☑	Depth:		_ (in.)							
Describe Rec	orded Data (s	stream gauge, monitorir	ng well, aeri	al photos, pr	evious insp	pections), if a	ıvailable:					
Describe Reco	`	stream gauge, monitorin				pections), if a	vailable:					
Remarks:	`					pections), if a	vailable:					
Remarks:	Soils are sa	turated at the surface	throughou	t the wetland	d.	·		l'astana\				
Remarks: SOILS Profile Descri	Soils are sa	turated at the surface	throughout	t the wetland	d. cator or co	onfirm the a	bsence of ir					
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Remarks: SOILS Profile Descri	Soils are sa	turated at the surface be to the depth neede etion, RM=Reduced Matrix,	throughout	t the wetland	d. cator or co	onfirm the al	bsence of ir					
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	turated at the surface be to the depth neede etion, RM=Reduced Matrix, Matrix	ed to docum	t the wetland	cator or co	onfirm the a tion: PL=Pore Mottles	bsence of ir Lining, M=Mati	rix)	Teyture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Soils are sail iption (Description (Description, Depoint action, Depoint action, Description). Tic Soil Field A1- Histosol A2 - Histic Ep	be to the depth neede etion, RM=Reduced Matrix Matrix Color (Moist) Indicators (check ipedon	ed to docum CS=Covered %	coated Sand Coolor (Color (Coated Sand Coolor (Color (S5 - Sandy R S6 - Stripped	d. Cator or cograins; Locat Moist) Noist) not present edox Matrix	Mottles %	bsence of ir Lining, M=Mati	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils¹	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: W-155n46w2-d1
VEGETATION	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.	J				
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cover				OBL spp. 20
	Total Cover =	0	_		FACW spp. $\frac{75}{2}$ X Z = $\frac{150}{2}$
0 - 11 /Ob wish (01 1 (D) 1 1 1 45 M == 15-1				FAC spp. $0 \times 3 = 0$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 10
1. 2.					$UPL spp. \underline{\qquad \qquad } x \ b = \underline{\qquad \qquad } \underline{\qquad }$
3.					Total 405 (A) 240 (D)
3. 4.					Total 105 (A) 210 (B)
5.					$Provolongo Indov = P/\Lambda = 2.000$
6.					Prevalence Index = B/A = 2.000
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					
10.		0			X Dominance Test is > 50% X Prevalence Index is ≤ 3.0 *
		U	_		
Llamb Ctrotum /	Distrained Ethanding)				Morphological Adaptations (Explain) *
1.	Plot size: 5 ft. radius) Phalaris arundinacea	40		FACW	Problem Hydrophytic Vegetation (Explain) *
2.				FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Spartina pectinata Scirpus atrovirens	20 15	<u>t</u> N	OBL	present, unless disturbed or problematic.
4.		10	N N	FACW	Definitions of Vegetation Strata:
5.	Rumex stenophyllus Eleocharis palustris	5	N N	OBL	Definitions of Vegetation Strata.
6	Poa palustris	5 5	N N	FACW	Tree - Westerlands Siz (7 Com) or more in diameter at broad
7.	Lotus corniculatus	5 5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.		5 5	N	FACU	
9.	Andropogon gerardii			1 ACC	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					Capinig/Oili ab
11.					1
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					-
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cover =	105			vvoody villes - v.m. 11-22, v.m, vg
	TOTAL COVEL —	100	_		
Moody Vine St	ratum (Plot size: 30 ft. radius)				
1.	Tatum (Flot Size. 30 it. radius)				
2.	 				
3.					Hydrophytic Vegetation Present?
5.					
4.	'			_	
	Total Cover =	0		_	
Remarks:	The wetland vegetation is dominated by a mix		non arasse	<u></u>	
Nomanio.	The wonding regeration to dominated by a	A OF COMME	ion graces	<i>7</i> 0.	
) aulea				
Additional R	Remarks:				
1					