WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/29/14						
Applicant:		Enbridge			0 1 1	(1 41 D A		141 5 4 50		County:	Marshall						
Investigators		RAJ/BEH			_Subregic	`	A or LRR):	MLRA 56		State:	MN						
Soil Unit:	123A				l D . l' . f		I Classification	າ:			4574740 1.4						
Landform:	Dip 0 20/		1 - 44 10 /		ocal Relief		146	Datum		Sample Point	w-157n47w16-k1						
Slope (%):	0 - 2%	nditions on the site	Latitude: 48.4			-96.725		Datum:	□ No	Droto ete dooo							
					ai: (ii no, ex					Pr0tected002							
Are Vegetation		☑, or Hydrology	•	•		Ale	e normal circuı ☑ Yes	-	esent?	Township:	Dir:						
Are Vegetation			□aturally pr	obiemanc:				□ 140		Range:	DII.						
Hydrophytic '			Yes					Hydric Soi	ls Present?	Voc							
Wetland Hyd	•		Yes		_					nt Within A W	etland? Yes						
Remarks:				tield The d	anression	was tilla	d last voar hut				s are disturbed from t	illage The					
ixemarks.		s disturbed from h			•		•	•	iteu triis sp	ring. The son	s are disturbed from t	mage. The					
HYDROLOG		s disturbed from fr	erbicide use	All paramet	CIS OF WELL	and cond	altions are pres	SCIII.									
_	• • •	icators (Check all	that apply; N	linimum of o	ne primary	or two s	econdary requ	ired):	0 1								
<u>Primary</u> □	<u>′:</u>	Motor		-	B11 - Salt	Cruct			Secondary:	<u>:</u> B6 - Surface S	Soil Crooks						
	A2 - High Wa				B13 - Aqu		1				Vegetated Concave Surf	ace					
	A3 - Saturation				C1 - Hydro					B10 - Drainag		doo					
	B1 - Water M	arks			C2 - Dry S	Season Wa	ater Table			C3 - Oxidized	Rhizospheres on Living F	Roots (tilled)					
	B2 - Sedimen	•					spheres on Living	g Roots (not till	l€	C8 - Crayfish							
	B3 - Drift Dep				C4 - Prese		educed Iron			C9 - Saturation D2 - Geomorp	n Visible on Aerial Image	ry					
☑	B4 - Algal Ma B5 - Iron Dep				Other (Exp		ace			D5 - FAC-Neu							
		n Visible on Aerial Im	nagery	_	Othor (Exp	Jian'i,					aved Hummocks (LRR F)					
	B9 - Water-S										,	•					
Field Obser	vations:																
Surface Wat	er Present?	Yes □	Dept	h:	_ (in.)			Wetland L	łydrology	Procent?	Υ						
Water Table	Present?	Yes □	Dept	h:	(in.)			Wettaliu i	iyurology	rieseiit:	<u> </u>						
Saturation P	resent?	Yes □	Dept	h:	(in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																	
Describe Rec	corded Data (s	stream gauge, moni	itoring well, a	erial photos, p		pections),	if available:										
	<u>`</u>					pections),	, if available:										
Describe Rec Remarks:	<u>`</u>	stream gauge, moni f wetland hydrolog				pections),	if available:										
Remarks:	<u>`</u>					pections),	if available:										
Remarks:	Indicators of		y are presen	t.	revious insp	•		ndicators.)									
Remarks: SOILS Profile Descri	Indicators of	f wetland hydrolog	y are presen	t. ument the ind	revious insp	onfirm th	e absence of i										
Remarks: SOILS Profile Descri	Indicators of	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma	y are presen	t. ument the ind	revious insp	onfirm th	e absence of i										
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators of	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma	eeded to docu	t. ument the ind ed/Coated Sand	revious inspired icator or congressions; Loca	onfirm thation: PL=P	e absence of i	trix)									
Remarks: SOILS Profile Descri	Indicators of	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma	y are presen	t. ument the ind ed/Coated Sand	revious insp	onfirm th	e absence of i		Texture		Remarks						
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators of	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu	t. ument the inded/Coated Sand Color	revious inspired icator or congressions; Loca	onfirm thation: PL=P	e absence of i	trix)	Texture SIC		Remarks						
Remarks: SOILS Profile Descri (Type: C=Concer	iption (Descr	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Cover	t. ument the inded/Coated Sand Color	icator or congrains; Loca	onfirm thation: PL=P	e absence of i	trix)		very fine sandy C							
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	iption (Descr	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Cover	t. ument the inded/Coated Sand Color	icator or congrains; Loca	onfirm thation: PL=P	e absence of interest of the contract of the c	Location	SIC	very fine sandy C							
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-21 NRCS Hydr	iption (Descr ntration, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 7/1	eeded to docu atrix, CS=Cover	t. ument the inded/Coated Sand Color Hue_10YF	icator or configurations; Locations; Locatio	onfirm thation: PL=P	e absence of interest in the control of the control	Location M	SIC CL Indicators	for Problemati	L						
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-21	iption (Description, Depoint Indicators of I	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 7/1 Indicators (characters)	eeded to docu atrix, CS=Cover	color Hue_10YF adicators are S5 - Sandy F	icator or configurations; Locations; Locatio	onfirm the ation: PL=P	e absence of interest in the control of the control	Location	Indicators A9 - 1 cm MA16 - Coast	for Problemati fuck (LRR I, J) t Prairie Redox	c Soils ¹ (LRR F, G, H)						
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-21	iption (Description, D=Deplementation, D=Depleme	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 7/1 Indicators (characters)	eeded to docu atrix, CS=Cover	Color Hue_10YF S5 - Sandy F S6 - Stripped F1 - Loamy	icator or configurations; Locator or configurati	monfirm the stion: PL=P	e absence of interest in the control of the control	Location	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) t Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)						
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-157n47w16-k1	
					•	
VEGETATIO		re non-native s	pecies.)			
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: 2 (B)	
5.						
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
7.						
8.					Prevalence Index Worksheet	
9.					Total % Cover of: Multiply by:	
10.					OBL spp. $30 x 1 = 30$	
	Total Cover =	0			FACW spp. 10 \times $2 = 20$	
			-		FAC spp. $0 x 3 = 0$	
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				OBL spp. 30	
1.					UPL spp. $0 x 5 = 0$	
2.					<u> </u>	
3.					Total 40 (A) 50 (B)	
4.						
5.					Prevalence Index = B/A = 1.250	
6.						
7.						
8.					Hydrophytic Vegetation Indicators:	
9.					Rapid Test for Hydrophytic Vegetation	
10.					X Dominance Test is > 50%	
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *	
	10101 00001		-			
Harb Stratum (Plot size: 5 ft. radius)				Morphological Adaptations (Explain) *	
1	Beckmannia syzigachne	30	V	OBL	Problem Hydrophytic Vegetation (Explain) *	
2.			Y	FACW	* Indicators of hydric soil and wetland hydrology must be	
	Leptochloa fusca	10	T	FACVV	present, unless disturbed or problematic.	
3.					·	
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.				_	We shall be the Both to Both the said be a file in the	
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 =	40	_			
Woody Vine St	ratum (Plot size: 30 ft. radius)					
1.						
2.						
3.					Hydrophytic Vegetation Present? Y	
5.						
4.						
	Total Cover =	= 0				
Remarks:	An annual community in a seasonally-flood		drophytic	vegetatio	on is present.	
	,,,,,,,, .	,		3		
Additional R	lemarke:					
Additional R	AGIIIAI NO.					