WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	08/21/14	
Applicant:		Enbridge									County:	Marshall	
Investigators		BEH/RAJ				_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I24A				•			I Classification:				450 40 04 4	
Landform:	Shoulder					cal Relief:		-00075			Sample Point:	u-156n46w21-a1	
Slope (%):	3 - 7%	. P.C	Latitude: 48			Longitude			<u>Datum:</u>				
		nditions on the site				ar? (If no, ex	1			□ No	Section:		
Are Vegetation		□, or Hydrology		-			Are	e normal circun	-	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally	prob	lematic?			Yes	□ No		Range:	Dir:	
SUMMARY C													
Hydrophytic \	•		No			_				ls Present?			
Wetland Hyd			No								t Within A W		
Remarks:	The upland	sample point is lo	cated in a t	tilled	field with v	ery few pla	ants. The	e site is upslope	e from an ep	hmeral dra	inage with a f	ringe wetland.	
HYDROLOG'	Υ												
Wetland Hy	drology Ind	icators (Check all	I that apply;	; Min	imum of or	ne primary	or two s	econdary requi	red):				
<u>Primary:</u>		•	113,	,		, ,		, ,	,	Secondary:			
	A1 - Surface	Water				B11 - Salt	Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface	l
	A3 - Saturation					C1 - Hydro					B10 - Drainage		
	B1 - Water M					C2 - Dry S			Doots (not till			Rhizospheres on Living Roc	ts (tilled)
	B2 - Sedimen B3 - Drift Dep	•						spheres on Living educed Iron	Roots (not till	·	C8 - Crayfish E	Burrows In Visible on Aerial Imagery	
	B4 - Algal Ma					C4 - Flese				H	D2 - Geomorp		
	B5 - Iron Dep					Other (Exp		acc			D5 - FAC-Neu		
		on Visible on Aerial Im	nagery		_	Othor (EXP	, idiriy					aved Hummocks (LRR F)	
	B9 - Water-S	ained Leaves	3 ,									,	
Field Observ	vations:												
Surface Wate	er Present?	Yes □	De	epth:		(in.)							
Water Table		Yes □		epth:		(in.)			Wetland H	lydrology l	Present?	N	
Saturation Pr		Yes □		epth:		– (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
-	1 15 / /	 			1 1 .	<u> </u>		16 11 11					
					• • •	evious insp	pections),	, if available:					
Describe Reco		stream gauge, moni or secondary hydr			• • •	evious insp	pections),	, if available:					
Remarks:					• • •	evious insp	pections),	, if available:					
Remarks:	No primary	or secondary hydr	rological inc	dicate	ors were ob	revious insposerved.	,						
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological inc	dicate	ors were of	revious insposerved.	onfirm th	e absence of in					
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Remarks: SOILS Profile Descri	No primary	or secondary hydr be to the depth ne etion, RM=Reduced Ma	rological inc	dicate	ors were of	revious insposerved.	onfirm th	e absence of in Pore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrobe to the depth neetion, RM=Reduced Ma	rological inc eeded to do atrix, CS=Cov	ocum vered/	ors were of ent the ind Coated Sand	revious insposerved. icator or congrains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)	Toydura		Damorka	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrone be to the depth ne etion, RM=Reduced Marix Matrix Color (Moist)	eeded to do	ocum vered/	ors were of	revious insposerved. icator or congrains; Loca	onfirm th	e absence of in Pore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	No primary iption (Descr	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to do atrix, CS=Cov	ocum vered/v	ors were of ent the ind Coated Sand	revious insposerved. icator or congrains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)	FSL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to do atrix, CS=Cov	ocum vered/	ors were of ent the ind Coated Sand	revious insposerved. icator or congrains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)	FSL LFS		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16	No primary iption (Description, D=Depl	or secondary hydron be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/1	eeded to do atrix, CS=Cov	ocum vered/ % 00 00	ors were of ent the ind Coated Sand	revious insposerved. icator or congrains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)	FSL LFS		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16	No primary iption (Description, D=Depl	or secondary hydron be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/1	eeded to do atrix, CS=Cov	ocum vered/ % 00 00	ors were of ent the ind Coated Sand	revious insposerved. icator or congrains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)	FSL LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16 16-21	No primary iption (Description, D=Deplementation, D=Deplementation	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 5/2	eeded to do atrix, CS=Cov	ocum vered/ % 00 00	ent the ind Coated Sand	revious insposerved. icator or configurations; Locations; Locatio	onfirm th	ne absence of in Pore Lining, M=Matr	ix)	FSL LFS		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16 16-21	Hue_10YR Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 5/2 Indicators (ch	eeded to do atrix, CS=Cov	% 00 00 f indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F	revious insposerved. Cator or configurations; Locations; Location	onfirm the stion: PL=P Mottl % at):	e absence of in Pore Lining, M=Matr es Type	Location	FSL LFS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 5/2 Indicators (ch	eeded to do atrix, CS=Cov	% 00 00 finding	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F	revious insposerved. icator or configuration of configur	onfirm the stion: PL=P Mottl % at):	e absence of in Pore Lining, M=Matr es Type	Location	FSL LFS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 5/2 Indicators (ch	eeded to do atrix, CS=Cov	% 00 00 oo	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete	revious insposerved. icator or configurations; Locations; Locatio	onfirm the stion: PL=P Mottl % attion: Still the still	e absence of in Pore Lining, M=Matr es Type	Location	FSL LFS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	or secondary hydr be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 5/2 Indicators (change of the color of th	eeded to do atrix, CS=Cov	% 00 00 f indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C F3 - Deplete F6 - Redox E F7 - Deplete F8 - Redox E	revious insposerved. Cator or configurations; Local Moist) Moist) Redox Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Dark Surface Depressions	monfirm the stion: PL=P Mottl % at): ral ix exace	e absence of in Pore Lining, M=Matr es Type	Location	FSL LFS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	E 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: u-156n46w21-a1
VEGETATIO	```	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Special Hairne</u>	<u>70 0010.</u>	<u> </u>		
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (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>50.0%</u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cover =	0			OBL spp. 0
	Total Cover =		_		FAC spp. $\frac{0}{1}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{3}{2}$
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACUSED 1 $\times 4 = 4$
1.	Ctratain (Fiot Size: Fort: radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					
3.					Total <mark>2</mark> (A) 7 (B)
4.					
5.					Prevalence Index = B/A = 3.500
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Tatal Cause				Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
I I a la Company	(District on E (1 on E or)				Morphological Adaptations (Explain) *
Herb Stratum ((Plot size: 5 ft. radius)	1	V	FAC	Problem Hydrophytic Vegetation (Explain) *
2.	Echinochloa crus-galli Artemisia biennis	1	<u> Т</u>	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Arternisia bierinis		<u>'</u>	TACO	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.					1
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.					All woods wings are profiled of beight
15.	Tatal Carre				Woody Vines - All woody vines, regardless of height.
	Total Cover =	2	_		
Manda Vina Ch	trature (Distaine) 20 ft radius)				
1	tratum (Plot size: 30 ft. radius)				4
2.					4
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	The area has minimal vegetative cover, with	scattered I	barnyard g	rass and	biennial wormwood.
Additional F	Remarks:				