WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/30/14		
Applicant:		Enbridge								County:	Pennington		
Investigators		MRK/OTG			_Subregio	•	∖ or LRR):	MLRA 56		State:	MN		
Soil Unit:	I59A			_			I Classification	:		1			
Landform:	Talf		47.00		ocal Relief:		100000			Sample Point:	u-152n43w15-b1		
Slope (%):	0 - 2%	. 190	Latitude: 47.99				21963333	<u>Datum:</u>					
		nditions on the sit							□ No	Section:			
Are Vegetation		☑, or Hydrology	•			Are	e normal circun	•	esent?	Township:			
Are Vegetation		□, or Hydrology	□aturally pro	blematic?			Yes	□ No		Range:	Dir:		
SUMMARY C									L D	NI			
Hydrophytic '	_		No		_				ls Present?		attain do Na		
	drology Prese		No	a field				is this Sar	npling Poin	t Within A W	etland? No		
Remarks: Upland sample point is located in a soybean field.													
LIVERGLOO	V												
HYDROLOG	Y												
		icators (Check all	I that apply; M	inimum of o	ne primary	or two s	econdary requi	red):					
<u>Primary</u>	_			_	544 6 1	•			Secondary:				
	A1 - Surface \A2 - High Wa				B11 - Salt B13 - Aqua					B6 - Surface S			
	A3 - Saturation				C1 - Hydro					B10 - Drainage	Vegetated Concave Surface		
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (tille		
	B2 - Sedimen	•			C3 - Oxidiz	zed Rhizos	spheres on Living	Roots (not till	• 🗆	C8 - Crayfish E	Burrows		
	B3 - Drift Dep						educed Iron				n Visible on Aerial Imagery		
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin N		ace			D2 - Geomorp D5 - FAC-Neu			
		osiis In Visible on Aerial Im	nagery		Other (Exp	nairi)					aved Hummocks (LRR F)		
	B9 - Water-St		nagery						_	27 110011100	avoa riammoono (2.t.tr)		
Field Obser	vations:												
Surface Wat	er Present?	Yes □	Depth	:	(in.)			\A/-4111		D	NI.		
Water Table	Present?	Yes □	Depth		(in.)			wetiand F	lydrology l	Present?	N		
Saturation P	resent?	Yes □	Depth		— /in \								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
			<u> </u>		(in.) revious insr	ections)	if available:						
Describe Rec	orded Data (s	stream gauge, mon	itoring well, ae	rial photos, p	revious insp	pections),	, if available:						
	orded Data (s		itoring well, ae	rial photos, p	revious insp	pections),	, if available:						
Describe Rec Remarks:	orded Data (s	stream gauge, mon	itoring well, ae	rial photos, p	revious insp	pections),	, if available:						
Describe Rec Remarks:	orded Data (s No primary	stream gauge, mon or secondary hydr	itoring well, aei	rial photos, p ators were o	revious insp bserved.	,		ndicators.)					
Describe Rec Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	stream gauge, mon	itoring well, ael	rial photos, pators were o	revious insposerved.	onfirm th	e absence of ir						
Describe Rec Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	or secondary hydrone be to the depth neetion, RM=Reduced M	itoring well, ael	rial photos, pators were o	revious insposerved.	onfirm th	e absence of ir						
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Describe Rec Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descri	or secondary hydrone be to the depth neetion, RM=Reduced M	itoring well, ael	rial photos, p ators were o ment the inc	revious insposerved.	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks		
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer	orded Data (s No primary iption (Descri	be to the depth neetion, RM=Reduced M Matrix Color (Moist)	itoring well, ael rological indica eeded to docul latrix, CS=Covere	rial photos, p ators were o ment the inc	revious insposerved. licator or congrains; Loca	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture SL		Remarks		
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	orded Data (s No primary iption (Descri	be to the depth neetion, RM=Reduced M Matrix Color (Moist)	itoring well, ael rological indica eeded to docul latrix, CS=Covere	ment the inc	revious insposerved. licator or congrains; Loca	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)			Remarks		
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No primary iption (Description, D=Depl	be to the depth neetion, RM=Reduced M Matrix Color (Moist)	itoring well, aerological indicated to document the second	ment the inc	revious insposerved. licator or congrains; Loca	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	SL		Remarks		
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18	iption (Descriptration, D=Depl	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3	itoring well, aerological indicated to document the second	ment the inc	revious insposerved. licator or configurations; Loca (Moist)	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	SL		Remarks		
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18	No primary iption (Description, D=Depl	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3	itoring well, aerological indicated to document the second	ment the inc	revious insposerved. licator or configurations; Loca (Moist)	onfirm th tion: PL=P Mottl	e absence of in fore Lining, M=Matr es Type	ix)	SL LS	or Problematic			
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Describe Reconstruction Remarks: SOILS Profile Description Carrette Profile Description Reconstruction Repeated Profile Description Reconstruction Reconstr	iption (Description, Depoint Intration, Depoint Int	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3 Indicators (chain)	itoring well, aerological indicated to document the second	cators were of the income of t	revious insposerved. licator or congrains; Loca (Moist) not presented and Matrix Mucky Miner	mottle which was also as a second confirm the tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)		
Describe Reconstruction Remarks: SOILS Profile Description Carrotte Profile Description Reconstruction Reconst	iption (Description, Depoint and Description) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3 Indicators (chain in Sulfide	itoring well, aerological indicated and indicated are deeded to document at the content of the c	cators were of the incomplete	mot present Redox d Matrix Mucky Miner Gleyed Matrix	mottle which was also as a second confirm the tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹ (LRR F, G, H)		
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Describe Reconstruction Remarks: SOILS Profile Description Care Concert Depth (In.) 0-14 14-18 NRCS Hydre	iption (Description, Depoint ation,	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/3 Indicators (chain Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	itoring well, aerological indicated and indicated are deeded to document at the control of the c	color S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete	mevious insponents in previous insponents in presentation or constitution of the const	mottle which was all and a second conformations of the conformation with the conformatio	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	C 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-152n43w15-b1
VEGETATIO		are non-native species.)			
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	<u>% Cover</u> <u>Dominant</u>	Ind.Status	Dominance Test Worksheet	
1.					
2.				Number of Dominant Species that are OBL, FACW, or	FAC: 0 (A)
3.					
4.				Total Number of Dominant Species Across All S	trata:1 (B)
5.					
6.				Percent of Dominant Species That Are OBL, FACW, or	FAC: <u>0.0%</u> (A/B)
7.					
8.				Prevalence Index Worksheet	
9.				Total % Cover of: Multiply by:	
10.				OBL spp. 0 x 1 = 0	
	Total Cover	= 0	FACW spp. $0 x 2 = 0$		
				Total % Cover of: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0 UPL spp. 75 x 5 = 375	
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)			FACU spp. $0 x 4 = 0$	
1.				UPL spp. $\frac{75}{}$ X 5 = $\frac{375}{}$	
2.					
3.				Total 75 (A) 375	(B)
4.					
5.				Prevalence Index = B/A = 5.000	
6.					
7.					
8.				Hydrophytic Vegetation Indicators:	
9.				Rapid Test for Hydrophy	ytic Vegetation
10.				Dominance Test is > 50)%
	Total Cover	= 0		Prevalence Index is ≤ 3.	.0 *
				Morphological Adaptation	ons (Explain) *
Herb Stratum (Plot size: 5 ft. radius)			Problem Hydrophytic Ve	egetation (Explain) *
1.	Glycine max	75 Y	NI		
2.				* Indicators of hydric soil and wetla	and hydrology must be
3.				present, unless disturbed	or problematic.
4.				Definitions of Vegetation Strata:	
5.				1	
6				Tree - Woody plants 3 in. (7.6cm) o	or more in diameter at breast
7.				height (DBH), regardless of I	
8.				1	
9.	,			Sapling/Shrub - Woody plants less than 3 in.	DBH, regardless of height.
10.				1	
11.				1	
12.				Herb - All herbaceous (non-woody)	plants, regardless of size.
13.	<u></u>			1	
14.				1	
15.				Woody Vines - All woody vines, regardless	of height.
10.	Total Cover	= 75		1	•
	Total Cover				
Woody Vino St	ratum (Plot size: 30 ft. radius)				
1	Tatum (Flot Size. 30 ft. Taulus)	_		-	
2.		_			
3.	1	_		Hydrophytic Vegetation Prese	ent? N
5.	1	_		Tiyarophytic vegetation Prese	>11C :
4.	<u>'</u>	_			
4.	Total Cover	= 0		-	
Remarks:	Upland sample point is dominated by cultiv				
Nemarks.	Opiand sample point is dominated by cultiv	rated soybeans.			
Additional R	Remarks:				