## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/22/14
Applicant:		Enbridge				·				County:	Marshall
Investigators		BEH/NTT/BJC			Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	I65A				Local Daliaf		I Classification:				
Landform:				Local Relief: LL 48.27384165 Longitude: -96.528			051601	Datum:		Sample Point	u-155n46w2-h1
Slope (%):		nditions on the sit						Datum. ✓ Yes	□ No	Section:	
Are Vegetation	· · ·	□, or Hydrology					e normal circun			Township:	
Are Vegetation	•	□, or Hydrology	•				⊠ Yes		550111:	Range:	Dir:
SUMMARY C			Hatarany	problemater			_ 100	- 110		Range.	0
Hydrophytic V			N	0				Hydric Soil	s Present?	No	
Wetland Hyd	•		N							t Within A W	/etland? <b>No</b>
Remarks:		ple point dominat	ted by gras	ses and golde	enrods, upslo	ope from	an excavated,				
HYDROLOG	V										
		icators (Check al	ll that apply	: Minimum of	one primarv	or two se	econdarv requi	ed):			
Primary:	•••			,					Secondary:		
	A1 - Surface				□ B11 - Salt					B6 - Surface S	
	A2 - High Wa A3 - Saturatio				<ul> <li>B13 - Aqua</li> <li>C1 - Hydro</li> </ul>					B8 - Sparsely B10 - Drainag	Vegetated Concave Surface
	B1 - Water M				C1 - Hyurc						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen				🗆 C3 - Oxidiz	zed Rhizos	spheres on Living	Roots (not till	e 🗆	C8 - Crayfish	
	B3 - Drift Dep						duced Iron				n Visible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin I		ace			D2 - Geomorp D5 - FAC-Neu	
		on Visible on Aerial In	magery		Other (Exp	Dain)					aved Hummocks (LRR F)
	B9 - Water-St		nagory						_		
Field Observ											
Surface Wate		Yes 🗆		epth:	(in.)			Wetland H	lydrology	Present?	Ν
Water Table		Yes 🗆		epth:	(in.)				.,		
Saturation Pr	resent?	Yes 🗆	De	epth:	(in.)						
Describe Reco	orded Data (s	stream gauge, mon	nitoring well,	, aerial photos,	previous insp	pections),	if available:				
Describe Reco Remarks:		stream gauge, mon or secondary hyd		-		pections),	if available:				
Remarks:				-		pections),	if available:				
Remarks: SOILS	No primary	or secondary hyd	rological in	dicators were	observed.			dicators.)			
Remarks: SOILS Profile Descri	No primary		rological ind	ocument the ir	observed.	onfirm the	e absence of in				
Remarks: SOILS Profile Descri	No primary	or secondary hydronic be to the depth ne to the depth ne	rological ind	ocument the ir	observed.	onfirm the	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydronic hydronic secondary hydronic	eeded to do	ocument the in	observed.	onfirm the ation: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	or secondary hydronia ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to do	ocument the in vered/Coated Sar % Colo	observed.	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary iption (Descrintration, D=Depleter Hue_10YR	or secondary hydronia be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do	ocument the in vered/Coated Sat % Colo	observed.	onfirm the ation: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	FSL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15	No primary	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second ary hydronic second	eeded to do	ocument the in ocument the in vered/Coated San % Colo 100 85	observed.	onfirm the ation: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	FSL FSL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15	No primary iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second and hydronic second	eeded to do	ocument the ir vered/Coated Sar % Colo 100 85 15	observed.	onfirm the ation: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	FSL FSL FS		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 15-19	No primary iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second ary hydronic second	eeded to do	ocument the in vered/Coated Sat % Colo 100 85 15 65	observed.	onfirm the ation: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	FSL FSL FS FS		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 15-19 15-19	No primary iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_10YR	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second and hydronic second	eeded to do	ocument the in vered/Coated San % Colo 100 85 15 65 35	observed.	onfirm the ation: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	FSL FSL FS FS FSL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 10-15 15-19 15-19 19-23	No primary iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second ary hydronic second	eeded to do	ocument the in vered/Coated San % Colo 100 85 15 65 35 100	observed.	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es Type	ix)	FSL FSL FS FS		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 10-15 15-19 15-19 19-23	No primary iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_10YR	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second ary hydronic second	eeded to do	ocument the in vered/Coated San % Colo 100 85 15 65 35	observed.	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	FSL FS FS FS FSL FS		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 10-15 15-19 15-19 19-23 NRCS Hydr	No primary	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second ary hydronic second	eeded to do	ocument the in vered/Coated San % Colo 100 85 15 65 35 100 if indicators ar	observed.	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es Type	Location	FSL FS FS FSL FS Indicators f	or Problemati	<u>c Soils<sup>1</sup></u>
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 10-15 15-19 15-19 19-23 NRCS Hydr	No primary	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second ary hydronic second are hydronic second ary hydronic second are hydronic second	eeded to do	ocument the in vered/Coated Sat % Colo 100 85 15 65 35 100 if indicators an	observed.	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es Type	Location	FSL FS FS FSL FS Indicators f	luck (LRR I, J)	<u>c Soils<sup>1</sup></u>
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 10-15 15-19 15-19 19-23 NRCS Hydr	No primary	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second ary hydronic second	eeded to do	ocument the ir vered/Coated Sar % Colo 100 85 15 65 35 100 if indicators ar □ S5 - Sand □ S6 - Stripp	observed.	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	FSL FS FS FSL FS Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J)	<u>c Soils<sup>1</sup></u> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 10-15 15-19 15-19 19-23 NRCS Hydr	No primary	or secondary hydronia ibe to the depth nere etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 7/3 7/3 2/1 7/3 Indicators (chained stic n Sulfide	eeded to do	ocument the in vered/Coated San % Colo 100 85 15 65 35 100 if indicators an □ S5 - Sand □ S6 - Stripp □ F1 - Loam □ F2 - Loam	observed.	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	FSL FS FS FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	<u>c Soils<sup>1</sup></u> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 10-15 15-19 15-19 19-23 NRCS Hydr	No primary	or secondary hydrony be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 7/3 7/3 2/1 7/3 Indicators (ch spedon stic n Sulfide Layers (LRR F)	eeded to do	ocument the in vered/Coated Sat % Colo 100 85 15 65 35 100 if indicators ar □ S5 - Sand □ S5 - Sand □ S6 - Stripp □ F1 - Loam □ F2 - Loam □ F3 - Deple	observed.	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	FSL FS FS FS FSL FS Main Anno Anno FS FS FS A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	<u>c Soils<sup>1</sup></u> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 10-15 15-19 15-19 19-23 NRCS Hydr	No primary	or secondary hydrony ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 7/3 7/3 2/1 7/3 1ndicators (ch stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to do Aatrix, CS=Cov	ocument the ir         vered/Coated Sat         %       Colo         100         85         15         65         35         100         if indicators ar         S5 - Sand         S6 - Stripp         F1 - Loam         F2 - Loam         F3 - Deple         F6 - Redo	observed.	onfirm the ttion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	FSL FS FS FS FS FS FS FS FS FS FS FS FS FS	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material	<u>c Soils<sup>1</sup></u> (LRR F, G, H) ) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 10-15 10-15 15-19 15-19 19-23 NRCS Hydr	No primary	or secondary hydronia ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 2/1 7/3 7/3 2/1 7/3 1ndicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface	eeded to do Aatrix, CS=Cov	ocument the in vered/Coated San % Colo 100 85 15 65 35 100 if indicators an S5 - Sand S6 - Stripp S6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	observed.	onfirm the ition: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	FSL FS FS FS FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	C Soils <sup>1</sup> (LRR F, G, H) ) ONS (LRR H, outside MLRA 72, 73) Surface
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	e: L3R				Sample Point: u-155n46w2-h1
VEGETATIO	· · · · · · · · · · · · · · · · · · ·	re non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				Deminance Test Werkshoet
1	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
<u> </u>					$\frac{1}{2}$
					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					$\frac{1}{2}$
6. 7.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
	-l				Prevalence Index Worksheet
<u>8.</u> 9.					
<u> </u>					Total % Cover of: Multiply by:
10.	 Total Cover =	- 0			OBL spp.       0       x       1 =       0         FACW spp.       0       x       2 =       0         FAC spp.       10       x       3 =       30         FACU spp.       30       x       4 =       120
		<u> </u>	_		$\begin{bmatrix} FACW \text{ spp.} \\ 0 \\ FAC \text{ spp.} \\ 10 \\ Y 3 \\ - \\ 30 \\ 30 \\ 0 \\ - \\ 30 $
Sepling/Shrub	Stratum (Plot size: 15 ft. radius)				$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Sapiing/Sritus					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
2.					$- \frac{0}{200} - $
3.					
<u> </u>					Total(A)(B)
<u> </u>					Prevalence Index = $B/A = 4.444$
<u> </u>					$= \frac{1}{1}$
<u> </u>					
<i>7.</i> 8.					Hydrophytic Vegetation Indicators:
<u> </u>					
<u> </u>		1			Rapid Test for Hydrophytic Vegetation
10.	 Total Cover =				Dominance Test is > 50%
1		=0	_		$\underline{\qquad} Prevalence Index is \leq 3.0 *$
					Morphological Adaptations (Explain) *
· · · · · · · · · · · · · · · · · · ·	(Plot size: 5 ft. radius)		V		Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	50	I		-
2.	Solidago altissima	20	Y	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Solidago gigantea	10	N	FAC	
4.	Melilotus officinalis	5	N	FACU	Definitions of Vegetation Strata:
5.	Taraxacum officinale	5	N	FACU	
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	90			
Woody Vine S	Stratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =				
Remarks:	The sample site is dominated by smooth bro	ome and tal	I goldenro	Jd.	
	•		Ŭ		
Additional F	Domarke				
Additional					