WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/25/14
Applicant:		Enbridge								County:	Pennington
Investigators					Subregion	•	or LRR): MLRA 56			State:	MN
Soil Unit:	169A						Classification	:			
Landform:	Talf		40.40		cal Relief:		205			Sample Point:	u-154n44w34-h1
Slope (%):	0 - 2%		Latitude: 48.10		Longitude:			Datum:			
		nditions on the site			If (If no, exp	T .			□ No	Section:	
Are Vegetation	•	☑, or Hydrology				Are	normal circun	-	esent?	Township:	
Are Vegetation		□, or Hydrology	Daturally pro	olematic?			Yes	□ No		Range:	Dir:
SUMMARY C									L D (0	N	
Hydrophytic \	_		No		-				Is Present?		(I IO No.
Wetland Hyd			No	- (C - 1 1 1 - (I P				t Within A We	
Remarks:	•			at field that h	nas been d	cut and di	isked. The soil	is are disturi	bed due to	tillage. The ve	egetation is disturbed due to
		oplication and tillag	ge.								
HYDROLOG'	Y										
Wetland Hy	drology Indi	icators (Check all	I that apply; Mi	nimum of on	e primary	or two se	econdary requi	red):			
Primary:	<u>.</u>	·						,	Secondary:		
	A1 - Surface \				B11 - Salt (B6 - Surface S	
	A2 - High Wat				B13 - Aqua		- O-l				Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma				C1 - Hydrog C2 - Dry Se					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled
	B2 - Sedimen				,		pheres on Living	Roots (not till	. □	C8 - Crayfish E	
	B3 - Drift Dep	•			C4 - Presei			rtoots (not till	`	•	Nisible on Aerial Imagery
	B4 - Algal Mat			_	C7 - Thin M				_	D2 - Geomorpl	
	B5 - Iron Depo	osits			Other (Expl	lain)				D5 - FAC-Neut	ral Test
		n Visible on Aerial Im	nagery							D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ											
Surface Wate	er Present?	Yes □	Depth:		(in.)			Wetland F	lydrology l	Present?	N
Water Table	Present?	Yes □	Depth:		(in.)			vvetiana i	iyarology i	1030III.	<u></u>
Saturation Pr	resent?	Yes □	Depth:		(in)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco	orded Data (s		<u> </u>		(in.) evious insp	ections), i	if available:				
	·	tream gauge, moni	itoring well, aeri	al photos, pre		ections), i	if available:				
Describe Reco	·		itoring well, aeri	al photos, pre		ections), i	if available:				
Remarks:	·	tream gauge, moni	itoring well, aeri	al photos, pre		ections), i	if available:				
Remarks:	No indicator	stream gauge, moni s of wetland hydro	itoring well, aeri	al photos, preserved.	evious insp			ndicators.)			
Remarks: SOILS Profile Descri	No indicator	tream gauge, moni	itoring well, aeriology were obse	al photos, preserved.	evious insp	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No indicator	stream gauge, moning of wetland hydrous of wetland hydrous be to the depth ne	itoring well, aeriology were obse	al photos, preserved.	evious insp	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No indicator	stream gauge, moning of wetland hydrous of wetland hydrous be to the depth ne	itoring well, aeriology were obse	al photos, preserved.	evious insp	onfirm the	e absence of ir ore Lining, M=Mati				
Remarks: SOILS Profile Descri	No indicator	stream gauge, moning of wetland hydrous of wetland	itoring well, aeriology were obse	al photos, preserved.	evious insp cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	tream gauge, moning of wetland hydrous be to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, aeriology were observed to document atrix, CS=Covered	al photos, preserved. nent the indicated Sand Control	evious insp cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr	rix)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator ption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, aeriology were observed to document atrix, CS=Covered %	nent the indicated Sand Color (I	evious insp cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr	rix)	+		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13	No indicator	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, aeriology were observed to document atrix, CS=Covered %	al photos, preserved. nent the indicated Sand Control	cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati es Type	Location	CL		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18	No indicator ption (Descrintration, D=Depleted Hue_10YR Hue_10YR)	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/4	itoring well, aeriology were observed to document atrix, CS=Covered 100 85	cal photos, preserved. nent the indicated Sand Color (Inches Leaves Lea	cator or co Grains; Locat	Mottle	e absence of in ore Lining, M=Matr es Type C	Location	CL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18	No indicator ption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/4	itoring well, aeriology were observed to document atrix, CS=Covered %	cal photos, preserved. nent the indicated Sand Color (Inches Leaves Lea	cator or co Grains; Locat	Mottle	e absence of ir ore Lining, M=Mati es Type	Location	CL FS		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	No indicator ption (Descriptration, D=Depleted) Hue_10YR Hue_10YR ic Soil Field	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 6/4	itoring well, aeriology were observed to document atrix, CS=Covered 100 85	cal photos, preserved. nent the indicators are reserved.	cator or co Grains; Locat Moist)	Mottle	e absence of in ore Lining, M=Matr es Type C	Location	CL FS	or Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	No indicator ption (Descriptration, D=Depleted Price Soil Field A1- Histosol	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (ch	itoring well, aeriology were observed to document atrix, CS=Covered 100 85	cal photos, preserved. Color (I Hue_2.5Y licators are r	cator or co Grains; Locat Moist) 6/8	Mottle	e absence of in ore Lining, M=Matr es Type C	Location	CL FS Indicators f A9 - 1 cm M	uck (LRR I, J)	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	No indicator Iption (Descriptration, D=Depleted Programmer) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (characters)	itoring well, aeriology were observed to document atrix, CS=Covered 100 85	color (I Hue_2.5Y S5 - Sandy R S6 - Stripped	cator or co Grains; Locat Moist) 6/8 oot present	Mottle % 15	e absence of in ore Lining, M=Matr es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (characters)	itoring well, aericology were observed atrix, CS=Covered 100 85	color (I Hue_2.5Y S5 - Sandy R S6 - Stripped F1 - Loamy M	cator or co Grains; Locat Moist) 6/8 oot present	Mottle % 15 t):	e absence of in ore Lining, M=Matr es Type C	Location	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.) 0-13 13-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 6/4 Indicators (characters)	itoring well, aericology were observed atrix, CS=Covered 85 Matrix	cal photos, preserved. nent the indial/Coated Sand Color (Included Sand Color) Hue_2.5Y licators are respectively. S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	cator or co Grains; Locat Moist) 6/8 not present edox Matrix lucky Minera	Mottle % 15 t):	e absence of in ore Lining, M=Matr es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (characters)	itoring well, aericology were observed atrix, CS=Covered atrix, CS=Covered atrix, CS=Covered atrix atr	color (I Hue_2.5Y S5 - Sandy R S6 - Stripped F1 - Loamy M	cator or co Grains; Locat Moist) 6/8 not present edox Matrix lucky Minera	Mottle % 15 t):	e absence of in ore Lining, M=Matr es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹ LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete A12 - Thick D	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 6/4 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	itoring well, aericology were observed atrix, CS=Covered atrix, CS=Covered atrix, CS=Covered atrix atr	color (I Hue_2.5Y Color (I Hue_2.5Y S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) 6/8 aot present edox Matrix lucky Minera eleyed Matrix ark Surface Dark Surface epressions	Mottle % 15 t):	e absence of incre Lining, M=Matrones Type C	Location	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 Depressions ed Vertic Parent Material	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.) 0-13 13-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mi S2 - 2.5 cm M	be to the depth nettion, RM=Reduced Matrix Color (Moist) 2/1 6/4 Indicators (characters) ipedonetic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (L	itoring well, aericology were observed atrix, CS=Covered 85 Matrix	color (I Hue_2.5Y Color (I Hue_2.5Y S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) 6/8 aot present edox Matrix lucky Minera eleyed Matrix ark Surface Dark Surface epressions	Mottle % 15 t):	e absence of incre Lining, M=Matrones Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	ESoils ¹ 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:	L3R				Sample Point: u-154n44w34-h1
VEGETATION	N (Species identified in all uppercase a	re non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
_	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.	<u> </u>	,			
4.					Total Number of Dominant Species Across All Strata:1 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7.					
8.					Prevalence Index Worksheet
9.		1			Total % Cover of: Multiply by:
10.	Total Cover				OBL spp. 0
	Total Cover =	= 0	_		FACW spp. $0 \times Z = 0$
2 - 15 /Ohmulh ($\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Stratum (Plot size: 15 ft. radius)	1			$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1. 2.		<u> </u>			
3.	_	<u> </u>			
3. 4.		<u> </u>			Total (A) (B)
<u> </u>		<u> </u> 			Provolonos Indox = P/A = 5.000
6.	_				Prevalence Index = B/A = 5.000
7.					
8.		l			Hydrophytic Vegetation Indicators:
9.		 			Rapid Test for Hydrophytic Vegetation
10.		l			Dominance Test is > 50%
10.	Total Cover =	= 0			Prevalence Index is ≤ 3.0 *
	10.0.0010.		_		Morphological Adaptations (Explain) *
Herh Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	5	Υ	NI	FTODIETT Tydrophytic vegetation (Explain)
2.	Thiodin doors		•		* Indicators of hydric soil and wetland hydrology must be
3.	ı ı				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.					†
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.	Í				†
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	= 5			1
1	- -		_		
Woody Vine St	ratum (Plot size: 30 ft. radius)	,	,		
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	= 0			
Remarks:			olants are	within the	e sample plot. There are also many old wheat stalks present at the sample point.
	•				
Additional R	?emarks:				
7100111011011	iona noi				
ı					