WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14
Applicant:		Enbridge								County:	Pennington
Investigators		BJC/RAJ			Subregic	`	A or LRR):	MLRA 56		State:	MN
Soil Unit:	I55A						I Classification	<u> </u>		_	
Landform:	Footslope				_ocal Relief					Sample Point:	u-153n44w11-a1
Slope (%):	3 - 7%		Latitude: 48.0			: -96.270		Datum:		1	
		nditions on the site				1			□ No	Section:	
Are Vegetation		□, or Hydrology	•	•	?	Are	e normal circun	•	esent?	Township:	
Are Vegetation		□, or Hydrology	□aturally pr	oblematic?			Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \			No						ls Present?		
Wetland Hyd			No							t Within A W	
Remarks:	•			nced horse p	pasture dom	ninated b	y Kentucky blue	egrass and v	white clove	r. A few rows	of white spruce have been
	planted nea	r the sample point	t as well.								
HYDROLOG	Υ										
Wetland Hy	drology Ind	icators (Check all	I that apply: M	linimum of	one primary	or two s	econdary requi	red):			
Primary:	•	(3.131.131.131.131.131.131.131.131.131.1			J				Secondary:		
	A1 - Surface \	<i>N</i> ater		[□ B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa			[□ B13 - Aqu						Vegetated Concave Surface
	A3 - Saturatio			[☐ C1 - Hydro					B10 - Drainage	
	B1 - Water Ma B2 - Sedimen			L	☐ C2 - Dry S		ater Table spheres on Living	Poots (not till	□	C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (tille
	B3 - Drift Dep	•					educed Iron	1700ts (Hot till	, –	•	n Visible on Aerial Imagery
	B4 - Algal Ma		☐ C7 - Thin I					D2 - Geomorp			
	B5 - Iron Dep				☐ Other (Exp	olain)				D5 - FAC-Neu	
		n Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
First 1 Ot and	- 4*										
Field Observ											
Surface Wate		Yes □	Dept		(in.)			Wetland H	lydrology l	Present?	N
Water Table		Yes □	Dept		(in.)			Trottaria i	.ya. 0.0gy .		<u></u>
Saturation Pr	resent?	Yes □	Dept	h·	/in \						
		100 –	Бері	· · · · · · · · · · · · · · · · · · ·	(in.)						
	orded Data (s	stream gauge, moni	<u> </u>			pections),	, if available:				
Describe Reco		stream gauge, mon	itoring well, ae	erial photos,		oections),	, if available:				
			itoring well, ae	erial photos,		pections),	, if available:				
Describe Reco		stream gauge, mon	itoring well, ae	erial photos,		oections),	, if available:				
Describe Reconstruction Remarks: SOILS Profile Descri	No indicator	stream gauge, moning of wetland hydrous be to the depth ne	itoring well, acology were objected	erial photos, oserved.	previous insp	onfirm th	e absence of ir				
Describe Reconstruction Remarks: SOILS Profile Descri	No indicator	stream gauge, moni s of wetland hydro	itoring well, acology were objected	erial photos, oserved.	previous insp	onfirm th	e absence of ir				
Describe Reconstruction Remarks: SOILS Profile Descri	No indicator	stream gauge, monities of wetland hydrous be to the depth need to	itoring well, acology were objected	erial photos, oserved.	previous insp	onfirm th	e absence of in Pore Lining, M=Matr				
Describe Reconstruction Remarks: SOILS Profile Descri	No indicator	stream gauge, monities of wetland hydrous be to the depth need to the depth need to the depth need to material	itoring well, acology were objected to docu	erial photos, oserved. Iment the in ed/Coated San	previous insp dicator or cond Grains; Loca	onfirm th ation: PL=P Mottl	e absence of in Pore Lining, M=Matr	rix)			
Describe Reconstruction Remarks: SOILS Profile Descri	No indicator	stream gauge, monities of wetland hydrous be to the depth need to	itoring well, acology were objected	erial photos, oserved. Iment the in ed/Coated San	previous insp	onfirm th	e absence of in Pore Lining, M=Matr		Texture		Remarks
Describe Reconstruction Remarks: SOILS Profile Descri (Type: C=Concert	No indicator	stream gauge, monities of wetland hydrous be to the depth need to the depth need to the depth need to material	itoring well, acology were objected to docu	erial photos, oserved. Iment the in ed/Coated San	previous insp dicator or cond Grains; Loca	onfirm th ation: PL=P Mottl	e absence of in Pore Lining, M=Matr	rix)	Texture CL		Remarks
Describe Reconstruction Remarks: SOILS Profile Descripe: C=Concert	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, acology were objected to docu	erial photos, oserved. Iment the in ed/Coated San	previous insp dicator or cond Grains; Loca	onfirm th ation: PL=P Mottl	e absence of in Pore Lining, M=Matr	rix)	Texture CL		Remarks
Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerder) Depth (In.) 0-8	No indicator Iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, acology were objected to docuatrix, CS=Covered %	erial photos, oserved. Iment the in ed/Coated San	previous insp dicator or cond Grains; Loca	onfirm th ation: PL=P Mottl	e absence of in Pore Lining, M=Matr	rix)	Texture CL		Remarks
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Describe Recordance Remarks: SOILS Profile Descrit (Type: C=Concerded) Depth (In.) 0-8 8-18	No indicator ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	itoring well, acology were objected to documentation, CS=Covered 100	crial photos, oserved. Iment the in ed/Coated San	dicator or cond Grains; Loca	onfirm thation: PL=P	e absence of in Pore Lining, M=Matr es Type	rix)	Texture CL C		Remarks
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Describe Reco	No indicator Iption (Descriptration, D=Deplete Hue_10YR Hue_10YR Hue_10YR Fic Soil Field	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	itoring well, acology were objected to documentation, CS=Covered 100	crial photos, especial	dicator or cond Grains; Local	onfirm thation: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	CL C	or Problemation	·
Describe Reco	No indicator ption (Descriptration, D=Deplete Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (ch	itoring well, acology were objected to documentation, CS=Covered 100	Color adicators are	previous inspections of condicator or condicator or condicator or condicator or condicators; Local or (Moist) e not preserve not prese	onfirm thation: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	CL C Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹
Describe Reco	No indicator Iption (Descriptration, D=Deplete Hue_10YR Hue_10YR Hue_10YR Fic Soil Field	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chains)	itoring well, acology were objected to documentation, CS=Covered 100	crial photos, pserved. Iment the in ped/Coated San Color Color Color Solution San Color Solution San Color Color	dicator or condicator or condicator or condicator or condicator or condicator or condicators; Locator (Moist) The not preserve and pre	onfirm thation: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)
Describe Reco	No indicator Iption (Descriptration, D=Deplete Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chains)	itoring well, acology were objected to documentation, CS=Covered 100	crial photos, pserved. Iment the in ed/Coated San Color Color Color Solution San Color	previous inspections of condicator or condicator or condicator or condicator or condicators; Local or (Moist) e not preserve not prese	monfirm the mation: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)
Describe Reco	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain in Sulfide Layers (LRR F)	itoring well, acology were objected to documentation, CS=Covered 100	crial photos, especial	dicator or condicator or condicator or condicator or condicator or condicator or condicators; Locator (Moist) The not preserve and Matrix of Mucky Miner of Gleyed Matrix of Gleyed Matrix and Matrix of Matrix	mottl Mottl % nt):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	c Soils ¹ (LRR F, G, H)
Describe Reco	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain and in Sulfide Layers (LRR F) ck (LRR FGH)	itoring well, accology were objected to doculatrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	Color Color Sandy S6 - Stripp F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox	r (Moist) Previous inspector or condicator or condicator or condicator or condicator or condicators; Local or (Moist) Previous inspectors or (Moist) Previous inspector	onfirm thation: PL=P Mottl % nt):	e absence of in Pore Lining, M=Matr es Type	Location	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 Depression ed Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Describe Reco	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain and a sulfide Layers (LRR FGH) and Below Dark Surface	itoring well, according well, according well, according were obtained by the second strict of	Color Color Stripp F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet	dicator or condicator or condicator or condicator or condicator or condicator or condicators; Locator (Moist) The not preserved Matrix of Mucky Miner of Matrix of Cleyed Matrix of Dark Surface ted Dark Surface	monfirm the stion: PL=P Mottl % ation: PL=P	e absence of in Pore Lining, M=Matr es Type	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 Depression ed Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Describe Record Remarks: SOILS Profile Descrip (Type: C=Concerd) Depth (In.) 0-8 8-18 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 Mu A11 - Deplete A12 - Thick D	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain and in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	itoring well, accology were objected to documentarix, CS=Covered 100 100 100 100 100 100 100 100 100 10	crial photos, eserved. Iment the ined/Coated San Color Color S5 - Sandy S6 - Stripp F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet F8 - Redox	dicator or condicator or condicator or condicator or condicator or condicators; Locator (Moist) The not preserved Matrix (Mucky Mineral Matrix (Dark Surface ted Dark Surface t	monfirm the stion: PL=P Mottl % nt): ral ix	es Type	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 Depression ed Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Describe Reco	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain and in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	itoring well, accology were objected to documentarix, CS=Covered 100 100 100 100 100 100 100 100 100 10	crial photos, eserved. Iment the ined/Coated San Color Color S5 - Sandy S6 - Stripp F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet F8 - Redox	dicator or condicator or condicator or condicator or condicator or condicators; Locator (Moist) The not preserved Matrix (Mucky Mineral Matrix (Dark Surface ted Dark Surface t	monfirm the stion: PL=P Mottl % nt): ral ix	e absence of in Pore Lining, M=Matr es Type	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 Depression ed Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Describe Record Remarks: SOILS Profile Descrip (Type: C=Concerd) Depth (In.) 0-8 8-18 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 Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain and in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	itoring well, accology were objected to doculatrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	crial photos, eserved. Iment the ined/Coated San Color Color S5 - Sandy S6 - Stripp F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet F8 - Redox	dicator or condicator or condicator or condicator or condicator or condicators; Locator (Moist) The not preserved Matrix (Mucky Mineral Matrix (Dark Surface ted Dark Surface t	monfirm the stion: PL=P Mottl % nt): ral ix	es Type	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 Rain in Remarks)	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-153n44w11-a1				
VEGETATIO		re non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius)				Dominanaa Taat Warkahaat				
1	Species Name	% Cover	Dominant Y	Ind.Status	Dominance Test Worksheet				
1. 2.	Picea glauca	30	Ť	FACU	Number of Deminent Species that are ORL EACW or EAC:				
3.		1			Number of Dominant Species that are OBL, FACW, or FAC:(A)				
4.	J				Total Number of Dominant Species Across All Strata: 4 (B)				
5.]			Total Number of Dominant Species Across All Strata.				
6.]			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.]			(AA)				
8.	J	1			Prevalence Index Worksheet				
9.		-			Total % Cover of: Multiply by:				
10.]							
	 Total Cover =	= 30			OBL spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$				
			$I \qquad FAC \text{ spp.} \qquad 20 \qquad X 3 = \qquad 60$						
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{110}{100}$ $\times 4 = \frac{440}{100}$				
1.	Lonicera tatarica	5	Υ	FACU	UPL spp. $0 x 5 = 0$				
2.		1			··· 				
3.		1			Total 135 (A) 505 (B)				
4.					· , ,· , ,				
5.					Prevalence Index = B/A = 3.741				
6.		1							
7.		1							
8.					Hydrophytic Vegetation Indicators:				
9.		i			Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	= 5			Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Poa pratensis	30	Υ	FACU					
2.	Trifolium repens	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Solidago altissima	15	N	FACU	present, unless disturbed or problematic.				
4.	Solidago gigantea	10	N	FAC	Definitions of Vegetation Strata:				
5.	Taraxacum officinale	10	N	FACU					
6	Carex granularis	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Plantago major	5	N	FAC	height (DBH), regardless of height.				
8.	Sonchus arvensis	5	N	FAC					
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 =	= 100							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?N				
5.									
4.									
	Total Cover =								
Remarks:	The upland sample point is dominated by K	entucky blu	egrass and	d white clo	over. The trees present were planted in rows.				
Additional Remarks:									
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