WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/23/14
Applicant:		Enbridge								County:	Pennington
Investigators		BJC/RAJ			_Subregio	•	A or LRR):	MLRA 56		State:	MN
Soil Unit:	162A			_			I Classification:			_	
Landform:	Talf				ocal Relief:					Sample Point:	u-154n44w33-aa1
Slope (%):	0 - 2%		Latitude: 48.1		Longitude:			Datum:		1	
		nditions on the site							□ No	Section:	
Are Vegetation		□, or Hydrology	•			Are	e normal circun	•	esent?	Township:	
Are Vegetation		□, or Hydrology	□aturally pro	oblematic?			✓ 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 hay	ed field don	ninated by p	pasture (grasses.The ve	getation has	s been haye	ed, but is still	identifiable.
HYDROLOG	Υ										
Wetland Hy	drology Indi	icators (Check all	I that apply: M	linimum of o	ne primary	or two s	econdary requi	red):			
Primary:	•	(2			, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,		Secondary:		
	A1 - Surface \	Nater			B11 - Salt (Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water Ma B2 - Sedimen				C2 - Dry So		ater Table spheres on Living	Poots (not till	,	C3 - Oxidized C8 - Crayfish E	Rhizospheres on Living Roots (tille
	B3 - Drift Dep	•					educed Iron	Noots (not till	, –	•	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu	
		n Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ											
Surface Wate		Yes □	Depti	າ:	(in.)			Wetland F	lydrology l	Present?	N
Water Table		Yes □	Depti	າ:	(in.)			Wolland I	iyarology i	10001111	
Saturation P	resent?	Yes	Depti	າ:	(in.)						
		Yes □ stream gauge, moni	<u> </u>			ections),	if available:				
Describe Rec	orded Data (s	tream gauge, moni	itoring well, ae	rial photos, p		ections),	if available:				
	orded Data (s		itoring well, ae	rial photos, p		ections),	if available:				
Describe Reco	orded Data (s	tream gauge, moni	itoring well, ae	rial photos, p		ections),	if available:				
Describe Reco	orded Data (s No indicator	tream gauge, moni	itoring well, ae ology were ob	rial photos, p	revious insp	,		ndicators.)			
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No indicator iption (Descri	stream gauge, moni s of wetland hydro	itoring well, ae ology were ob	rial photos, poserved.	revious insp	onfirm th	e absence of in				
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No indicator iption (Descri	stream gauge, moning of the stand hydrous of wetland hydrous of the depth necession, RM=Reduced Market of the standard market of the stan	itoring well, ae ology were ob	rial photos, poserved.	revious insp	onfirm th	e absence of in ore Lining, M=Matr				
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No indicator iption (Descri	stream gauge, moning of wetland hydrous be to the depth neterion, RM=Reduced Matrix	itoring well, ae ology were observed to docu	rial photos, poserved. ment the incomed/Coated Sand	revious insp licator or co Grains; Loca	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)			
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Describe Reconstruction Remarks: SOILS Profile Description (Type: C=Concert)	orded Data (s No indicator iption (Descri	stream gauge, moning of wetland hydrous be to the depth neterion, RM=Reduced Matrix	itoring well, ae ology were observed to docu	rial photos, poserved. ment the incoded/Coated Sand	revious insp licator or co Grains; Loca	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture SCL		Remarks
Describe Reconstruction Remarks: SOILS Profile Descripe: C=Concert	orded Data (s No indicator iption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, ae ology were ob eeded to docu atrix, CS=Covere	rial photos, poserved. ment the incoded/Coated Sand	revious insp licator or co Grains; Loca	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)			Remarks
Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd Depth (In.) 0-8	orded Data (s No indicator iption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	itoring well, ae ology were obseeded to docustrix, CS=Covered %	rial photos, poserved. ment the incoded/Coated Sand	revious insp licator or co Grains; Loca	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	SCL		Remarks
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Describe Recordance Remarks: SOILS Profile Descripe: C=Concerdance C=Co	orded Data (s No indicator iption (Descriptration, D=Depleted Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	itoring well, ae ology were obseeded to docustrix, CS=Covered 1000	rial photos, poserved. ment the incoded/Coated Sand	revious insp	onfirm the	e absence of in ore Lining, M=Matr es Type	ix)	SCL		Remarks
Describe Recordance Remarks: SOILS Profile Descripe: C=Concerdance C=Co	orded Data (s No indicator iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	itoring well, ae ology were obseeded to docustrix, CS=Covered %	rial photos, poserved. ment the incoded/Coated Sand	revious insp	onfirm the	e absence of in ore Lining, M=Matr	ix)	SCL SC	for Problematic	
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Describe Recordance Remarks: SOILS Profile Descripe: C=Concerdance C=Co	norded Data (s No indicator ption (Descriptration, D=Depleted Hue_10YR Hue_10YR A1- Histosol	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (ch	itoring well, ae ology were obseeded to docustrix, CS=Covered 1000	rial photos, poserved. ment the inced/Coated Sand Color dicators are S5 - Sandy	revious insp	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	SCL SC Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹
Describe Reco	orded Data (s No indicator ption (Descriptration, D=Depleted Hue_10YR Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (characters)	itoring well, ae ology were obseeded to docustrix, CS=Covered 1000	rial photos, poserved. ment the incoded/Coated Sand Color dicators are \$5 - Sandy \$6 - Strippe	revious insp	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹
Describe Reco	iption (Descrintration, D=Deplementation, D=Deplementation) 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 (characters)	itoring well, ae ology were obseeded to document atrix, CS=Covered 1000	rial photos, poserved. ment the inced/Coated Sand Color dicators are \$5 - Sandy \$6 - Strippe F1 - Loamy	revious insp	Mottle was al	e absence of in ore 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
Describe Reco	norded Data (s No indicator Iption (Descriptration, D=Depleted Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (characters)	itoring well, ae ology were obseeded to document atrix, CS=Covered 1000	rial photos, poserved. ment the inced/Coated Sand Color dicators are \$5 - Sandy \$6 - Strippe F1 - Loamy F2 - Loamy	revious insp licator or co Grains; Locat (Moist) not presen Redox d Matrix Mucky Minera Gleyed Matrix	Mottle was al	e absence of in ore 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) Plains Depressio	c Soils ¹ (LRR F, G, H)
Describe Reco	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	itoring well, ae ology were objected to document with the control of the control	rial photos, poserved. ment the inced/Coated Sand Color dicators are S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox	revious insp licator or co Grains; Local (Moist) not presen Redox d Matrix Mucky Minera Gleyed Matrix Ed Matrix Dark Surface	mottle which was all and a second confirm the second confirmation	e absence of in ore 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 Muc 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, ae ology were objected to document atrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	rial photos, poserved. ment the inced/Coated Sand Color Color dicators are S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F7 - Deplete	mot present Mucky Mineral Matrix Mucky Mineral Matrix Dark Surface and Dar	mottle which was all and a second confirm the second confirmation	e absence of in ore 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 ed Vertic Parent Material Shallow Dark S	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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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 Mur 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 (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (L	itoring well, ae ology were observed atrix, CS=Covered atrix, CS=C	rial photos, poserved. ment the inced/Coated Sand Color Color dicators are S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F7 - Deplete F8 - Redox	revious inspections in the inspection inspection inspections in the inspection inspection inspections in the inspection inspection inspection in the inspection inspection in the inspecti	Mottle % al x ace	e absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils 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-154n44w33-aa1			
•					· · · · · · · · · · · · · · · · · · ·			
VEGETATION	(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: 0 (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: 0.0% (A/B)			
7.					(742)			
8.					Prevalence Index Worksheet			
9.								
					Total % Cover of: Multiply by:			
10.	Total Cayor				OBL spp. 0			
	Total Cover =	0			FACVV spp. $\frac{15}{2}$ \times $2 = \frac{30}{2}$			
			FAC spp. 5 $X 3 = 15$					
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 40 $x 4 = 160$			
1.					UPL spp. $40 X 5 = 200$			
2.								
3.					Total 100 (A) 405 (B)			
4.								
5.					Prevalence Index = B/A = 4.050			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
10.	Total Cayor							
	Total Cover =	· <u> </u>			Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Bromus inermis	40	Y	UPL				
2.	Lotus corniculatus	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Phalaris arundinacea	15	N	FACW	present, unless disturbed or problematic.			
4.	Poa pratensis	10	N	FACU	Definitions of Vegetation Strata:			
5.	Cirsium arvense	5	N	FACU				
6	Sonchus arvensis	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	Concrius diversis		11	1710	height (DBH), regardless of height.			
8.					The light (= = 1.1,1) regimeness of the light			
					Continuate hands less than 3 in DRH regardless of height			
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						
	1000 00101 =	100						
Moody Vina St	ratum (Plot size: 30 ft. radius)							
1	atum (Plot Size. 30 ft. radius)							
1.								
2.					Uhada a la da Warat da Barra (C. N.			
3.					Hydrophytic Vegetation Present?N			
5.								
4.								
	Total Cover =							
Remarks:	The upland sample point is dominated by sr	nooth brom	e and bird	l's foot tref	foil. The vegetation has been hayed in the area, but is still identifiable.			
	•							
Additional Remarks:								
Additional Nemarks.								