WETLAND DETERMINATION DATA FORM Great Plains Region

		l =								T = .	22/27/1	
Project/Site:		L3R								Date:	09/27/14	
Applicant:		Enbridge BJC/RAJ			Subrogio	n (MIDA	or I DD\	MLRA 56		County: State:	Pennington MN	
Investigators Soil Unit:	I20A	DJC/RAJ			_Subregio	•	vor LRR): I Classification:			State.	IVIIN	
Landform:	Talf				ocal Relief		i Classification.	•		Sample Point	u-154n44w3-j1	
Slope (%):	0 - 2%		Latitude: 48.			-96.285	113	Datum:			<u>a 10 m 1 m 0 j 1</u>	
		nditions on the site							□ No	Section:		
Are Vegetation		□, or Hydrology					e normal circun	nstances pre	esent?	Township:		
Are Vegetation	on 🛭 Soil	□, or Hydrology	□aturally p	roblematic?			Yes	□ No		Range:	Dir:	
SUMMARY C	OF FINDINGS	6										
Hydrophytic \	_		<u>No</u>		_				s Present?			
Wetland Hyd			No							it Within A W		
Remarks: The upland sample point is located in a pasture that has been left to regenerate. The plant species have regenerated enough to the point of being identifiable.												
HYDROLOG'	Y											
Wetland Hy	drology Ind	icators (Check all	that apply;	Minimum of o	ne primary	or two se	econdary requi	red):				
<u>Primary:</u>		•••				•			Secondary:			
	A1 - Surface				B11 - Salt					B6 - Surface S		
	A2 - High Wa A3 - Saturatio				B13 - Aqua					B10 - Sparsely	Vegetated Concave Surface	
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (tilled	
	B2 - Sedimen	•			C3 - Oxidi	zed Rhizos	spheres on Living	Roots (not till	€ □	C8 - Crayfish	Burrows	
	B3 - Drift Dep						duced Iron				n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin I		ace			D2 - Geomorp D5 - FAC-Neu		
	B5 - Iron Dep	อรแร n Visible on Aerial Ima	nagery		Other (Exp	Diairi)					aved Hummocks (LRR F)	
	B9 - Water-St		lagoly						_	<i>57</i> 11000110	avea riammeene (Entri)	
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Dep	oth:	(in.)			Watland H	ludrologu l	Dracent?	NI	
Water Table	Present?	Yes □	Dep	oth:	(in.)			wetiand H	lydrology l	Present?	N	
Saturation Pr	resent?	Yes □	Dep	oth:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	stream gauge monit	itoring well a			nections)	if available:					
	<u> </u>			erial photos, p		pections),	if available:					
Describe Reco	<u> </u>	stream gauge, monit		erial photos, p		pections),	if available:					
Remarks:	<u> </u>			erial photos, p		pections),	if available:					
Remarks:	No indicator	rs of wetland hydro	ology were d	erial photos, p bserved.	revious insp	·		ndicators.)				
Remarks: SOILS Profile Descri	No indicator		ology were deeded to doo	erial photos, possibserved.	revious insp	onfirm the	e absence of ir					
Remarks: SOILS Profile Descri	No indicator	be to the depth neetion, RM=Reduced Ma	ology were deeded to doo	erial photos, possibserved.	revious insp	onfirm the	e absence of ir ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth necession, RM=Reduced Ma	eeded to doc atrix, CS=Cove	erial photos, possibserved. Sument the incored/Coated Sand	dicator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)				
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth necetion, RM=Reduced Ma Matrix Color (Moist)	eeded to doo atrix, CS=Cove	erial photos, possibserved. Sument the incorred/Coated Sand	revious insp	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7	No indicator iption (Descri	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doc atrix, CS=Cove	erial photos, pobserved. Eument the incred/Coated Sand	dicator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)	L		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doo atrix, CS=Cove	erial photos, pobserved. Eument the incred/Coated Sand	dicator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture L LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7	No indicator iption (Descri	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doc atrix, CS=Cove	erial photos, pobserved. Eument the incred/Coated Sand	dicator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)	L		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7	No indicator iption (Descri	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doc atrix, CS=Cove	erial photos, pobserved. Eument the incred/Coated Sand	dicator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)	L		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18	No indicator iption (Descriptration, D=Depl	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/3	eeded to docatrix, CS=Cove	erial photos, pobserved. Eument the incored/Coated Sand	dicator or configurations; Local	onfirm the	e absence of inore Lining, M=Matrees Type	ix)	L		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18	No indicator iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/3	eeded to docatrix, CS=Cove	erial photos, pobserved. Sument the incored/Coated Sand Color O ndicators are	dicator or configurations; Local (Moist)	onfirm the	e absence of inore Lining, M=Matrees Type	Location	L LFS	or Problemati		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	No indicator iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth nedetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (che	eeded to docatrix, CS=Cove	erial photos, pobserved. Eument the incred/Coated Sand Color O ndicators are S5 - Sandy	dicator or configurations; Local (Moist) not preser	onfirm the	e absence of inore Lining, M=Matrees Type	Location	L LFS Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth nedetion, RM=Reduced Marix Color (Moist) 2/1 5/3 Indicators (checking)	eeded to docatrix, CS=Cove	erial photos, pobserved. Sument the incred/Coated Sand Color O ndicators are S5 - Sandy S6 - Strippe	dicator or condicator or condicator or condicator or condicator or condicator or condicators; Local (Moist) (Moist) not preserved Matrix	onfirm the otion: PL=Po	e absence of inore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	<u>c Soils¹</u> (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neetion, RM=Reduced Marix Color (Moist) 2/1 5/3 Indicators (checked)	eeded to docatrix, CS=Cove	erial photos, pobserved. Sument the incred/Coated Sand Color Colo	mot preser Redox Mucky Miner	monfirm the Mottle %	e absence of inore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0	luck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 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 Ma Matrix Color (Moist) 2/1 5/3 Indicators (check the color of the c	eeded to docatrix, CS=Cove	erial photos, pobserved. sument the incored/Coated Sand Color Color Color Solution Solution Color C	mot preser Redox Mucky Miner Gleyed Matrix Dark Surface Depressions	mottle Mottle % ation: PL=Per Mottle Mottle Mottle Ation: PL=Per Mottle Mottle Ation: PL=Per Mottle	e absence of inore Lining, M=Matres 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 Depressi ced Vertic Parent Material	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-154n44w3-j1				
VEGETATIO	(Species identified in all uppercase a	re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	<u>Species Name</u>	% 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.		1			refeelt of Bollinant opedies that Ale OBE, I AOW, of I Ao (AD)				
8.		1			Prevalence Index Worksheet				
					4				
9.		1			Total % Cover of: Multiply by:				
10.		l			OBL spp. $\frac{0}{0}$ $\times 1 = \frac{0}{0}$				
	Total Cover =	= 0			FACW spp. $0 X 2 = 0$				
			OBL spp. 0						
	Stratum (Plot size: 15 ft. radius)				FACU spp. 85 $x 4 = 340$				
1.					UPL spp15				
2.									
3.					Total 100 (A) 415 (B)				
4.									
5.					Prevalence Index = B/A = 4.150				
6.		1							
7.		1							
8.		1			Hydrophytic Vegetation Indicators:				
9.	_	1							
		1			Rapid Test for Hydrophytic Vegetation				
10.	Tatal Oscar				Dominance Test is > 50%				
	Total Cover =	= 0			Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Poa pratensis	45	Υ	FACU					
2.	Dactylis glomerata	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Bromus inermis	15	N	UPL	present, unless disturbed or problematic.				
4.	Taraxacum officinale	15	N	FACU	Definitions of Vegetation Strata:				
5.	Trifolium repens	5	N	FACU					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
8.									
					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
9.					Sapinig/Siliub - Woody Plants less than 5 in. BBH, Tegardess 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 S	tratum (Plot size: 30 ft. radius)								
1.	(1 lot size: 00 it: radias)								
2.									
3.					Hydrophytic Vogotation Procent?				
	I.				Hydrophytic Vegetation Present?N				
5.									
4.									
	Total Cover =								
Remarks:	The upland sample point is dominated by K	entucky blu	egrass an	d orchard	grass.				
Additional I	Remarks:								
Additional Remarks:									