WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/25/14
Applicant:		Enbridge RAJ/BJC			Subragio					County:	Pennington MN
Investigators Soil Unit:	I169A	KAJ/DJC			_Subregio	•	or LRR):	MLRA 56		State:	
Landform:	Rise		Local Relief: VV						Sample Point:	u-154n44w34-e4	
Slope (%):	0 - 2%		Latitude: 48		Longitude:			Datum:] .	
		nditions on the sit						☑ Yes		Section:	
Are Vegetati		□, or Hydrology	•	•)	Are	e normal circum	-	esent?	Township:	Dia
Are Vegetation		□, or Hydrology		problematic?			⊠ Yes	□ No		Range:	Dir:
	Vegetation P		No)				Hvdric Soi	Is Present?	No	
	drology Prese		No							nt Within A W	etland? No
Remarks:	The upland	island is on a rise	e within a me	esic hardwood	l forest dom	inated by	y quaking aspe	n. No indic	ators of we	tland conditio	ns are met.
HYDROLOG	Y										
-	•••	icators (Check al	II that apply;	; Minimum of c	one primary	or two se	econdary requir	ed):			
Primary		Matar		_	B11 - Salt	Cruct			Secondary:	B6 - Surface S	
	 A1 - Surface Water A2 - High Water Table 					atic Fauna					Vegetated Concave Surface
	A3 - Saturatio			□ C1 - Hydrogen Sulfide Odor □							e Patterns
	B1 - Water M B2 - Sedimen				C2 - Dry S C3 - Oxidiz		ter Table spheres on Living	Roots (not till	С (C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•			C4 - Prese					C9 - Saturation	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp	
	B5 - Iron Dep B7 - Inundatio	osits In Visible on Aerial In	magerv		Other (Exp	lain)				D5 - FAC-Neu D7 - Frost-Hea	tral Test aved Hummocks (LRR F)
	B9 - Water-St										()
Field Observ											
Field Observ		Vac T	Da	anth.	(in)						
Surface Wat Water Table		Yes □ Yes □		epth: epth:	(in.) (in.)			Wetland H	lydrology	Present?	Ν
Saturation P		Yes D		epth:	(in.)						
Describe Rec	orded Data (s	stream gauge, mor		•		pections).	if available:				
		geleige, mei									
Remarks:	No indicato	rs of wetland hydr	rology are pr	resent.							
	No indicato	rs of wetland hydr	rology are pr	resent.							
SOILS		rs of wetland hydr			· · · · · ·	·		dicators.)			
SOILS Profile Descri	iption (Descri		eeded to do	ocument the ind	dicator or co	onfirm the	e absence of in				
SOILS Profile Descri	iption (Descri	be to the depth ne	eeded to do	ocument the ind	dicator or co	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr				
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix	eeded to do Matrix, CS=Cov	ocument the ind vered/Coated Sand	dicator or co d Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descri ntration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to do Matrix, CS=Cov	ocument the ind vered/Coated Sand	dicator or co	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr		Texture		Remarks
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to do Matrix, CS=Cove	ocument the ind vered/Coated Sand	dicator or co d Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr	ix)	Texture CL LCOS	many pebbles	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do Matrix, CS=Cove	ocument the ind vered/Coated Sand % Color 00	dicator or co d Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr	ix)	CL	many pebbles	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do Matrix, CS=Cove	ocument the ind vered/Coated Sand % Color 00	dicator or co d Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr	ix)	CL	many pebbles	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do Matrix, CS=Cove	ocument the ind vered/Coated Sand % Color 00	dicator or co d Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr	ix)	CL	many pebbles	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18	iption (Descrintration, D=Depl Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3	eeded to do Matrix, CS=Cove	ocument the index vered/Coated Sand % Color 00 00 00	dicator or co d Grains; Loca (Moist)	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matri es Type	ix)	CL	many pebbles	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18	iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3	eeded to do Matrix, CS=Cove	ocument the ind vered/Coated Sand % Color 00	dicator or co d Grains; Loca (Moist)	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matr	ix)	CL LCOS		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3	eeded to do Matrix, CS=Cove	ocument the index vered/Coated Sand % Color 00 00 00	dicator or co d Grains; Loca (Moist)	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matri es Type	Location	CL LCOS	many pebbles	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 Indicators (cl	eeded to do Matrix, CS=Cove	ocument the indexed/Coated Sand vered/Coated Sand % Color 00 00 00 indicators are □ S5 - Sandy □ S6 - Stripped	dicator or co d Grains; Loca (Moist) (Moist) e not presen Redox ed Matrix	onfirm the tion: PL=Po Mottle %	e absence of in ore Lining, M=Matri es Type	Location	CL LCOS Indicators f A9 - 1 cm M A16 - Coast	or Problematic luck (LRR I, J) Prairie Redox (<u>c Soils¹</u> (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 Indicators (cl ipedon	eeded to do Matrix, CS=Cove	ocument the indiversed/Coated Sand vered/Coated Sand % Color 00 00 00 00 indicators are S5 - Sandy S6 - Strippe F1 - Loamy	dicator or co d Grains; Loca (Moist) (Moist) e not presen Redox ed Matrix Mucky Miner	onfirm the tion: PL=Po Mottle %	e absence of in ore Lining, M=Matri es Type	Location	CL LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	or Problematio luck (LRR I, J) Prairie Redox (urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 Indicators (cl ipedon stic n Sulfide	eeded to do Matrix, CS=Cove	ocument the independent of the independ	dicator or co d Grains; Loca (Moist) (Moist) e not presen Redox ed Matrix Mucky Miner Gleyed Matri	onfirm the tion: PL=Po Mottle %	e absence of in ore Lining, M=Matri es Type	Location	CL LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	or Problematio luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	<u>c Soils¹</u> (LRR F, G, H)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w34-e4
		e non-native	species.)		
ree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	Populus tremuloides	<u>50</u>	Y	FAC	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 6 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 $x 1 = 0$
	Total Cover =	50			FACW spp. 6 X 2 = 12
					OBL spp. 0 x 1 = 0 FACW spp. 6 x 2 = 12 FAC spp. 85 x 3 = 255 FACU spp. 80 x 4 = 320
	Stratum (Plot size: 15 ft. radius)			= = = = = = = = = = = = = = = = = = = =	FACU spp. 80 $x 4 = 320$
1.	Cornus racemosa	20	Y	FAC	UPL spp. 30 $x 5 = 150$
2.	Viburnum lentago	15	Y	FACU	
3.	Populus tremuloides	15	Y	FAC	Total <u>201</u> (A) <u>737</u> (B)
<u>4.</u>	Toxicodendron rydbergii	5	N	FACU	
5.					Prevalence Index = $B/A = $ 3.667
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Tatal Causer				Dominance Test is > 50%
	Total Cover =	55	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
erb Stratum (Plot size: 5 ft. radius)		V		Problem Hydrophytic Vegetation (Explain) *
1.	Symphyotrichum ciliolatum	30	I	NI	
2.	Poa pratensis	30	Y	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Fragaria virginiana	15	<u>N</u>	FACU	
<u>4.</u>	Solidago canadensis	10	<u>N</u>	FACU	Definitions of Vegetation Strata:
5.	Phleum pratense	5	<u>N</u>	FACU	Tree
<u>6</u> 7.	Spartina pectinata	3	<u>N</u> N	FACW FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.	Symphyotrichum lateriflorum	3	IN	FACVV	inigin (2217), regulated of height
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.	I				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					
13.	1				4
15.	,				Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	96			
		30	_		
loody Vine St	ratum (Plot size: 30 ft. radius)				
1					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
emarks:			d by quak	ing aspen	. There is a diverse herbaceous community of mostly FACU species.
			a by quar	ing dopen	
	Domorko				
dditional F	kemarks:				