WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/26/14
Applicant:	_	Enbridge				O the second					County:	Pennington
Investigators Soil Unit:	BJC/RAJ 169A			Subregion (MLRA				or LRR):	MLRA 56		State:	MN
Landform:						cal Relief: VL					Sample Point	∷ u-153n44w3-c1
Slope (%):						Longitude: -96.290846 Datum:				1		
Are climatic/	hydrologic co	nditions on the sit	te typical for	r this	time of yea	ar? (If no, exp	olain in rema	arks)	⊠ Yes	□ No	Section:	
Are Vegetation	•	☑, or Hydrology	0				Are	e normal circun	-	esent?	Township:	
Are Vegetatio		□, or Hydrology	□aturally p	probl	lematic?			⊠ Yes	□ No		Range:	Dir:
SUMMARY C			Nie	-					Lludria Sail	o Drocont?	Mo	
Hydrophytic V Wetland Hyd	•		<u>No</u> No						Hydric Soil		IND It Within A W	/etland? No
Remarks:					-made rise	from pipe	line cons	struction. The a				re a lot of bare areas.
										,		
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check al	I that apply:	: Mini	imum of on	e primary	or two se	econdary requi	red):			
Primary	<u>:</u>	·	······································	,				,		Secondary:		
	A1 - Surface					B11 - Salt					B6 - Surface S	
	A2 - High Wa A3 - Saturatio					B13 - Aqua C1 - Hvdro					B10 - Drainag	Vegetated Concave Surface
	B1 - Water M	arks		□ C2 - Dry Season Water Table □							C3 - Oxidized	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep	•						spheres on Living	Roots (not tille		C8 - Crayfish	Burrows n Visible on Aerial Imagery
	B4 - Algal Ma			□ C4 - Presence of Reduced Iron □ □ C7 - Thin Muck Surface □							D2 - Geomorp	U I
	B5 - Iron Dep	osits				Other (Exp	olain)				D5 - FAC-Neu	utral Test
	B7 - Inundatio B9 - Water-St	on Visible on Aerial In	nagery								D7 - Frost-He	aved Hummocks (LRR F)
	b9 - Waler-Si	alleu Leaves										
Field Observ	vations:											
Surface Wat		Yes 🗆	De	epth:		(in.)					D ====================================	N
Water Table		Yes 🗆		epth:		(in.)			Wetland H	ydrology i	Present?	Ν
Saturation P	resent?	Yes 🗆	De	epth:		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	stream gauge, mon	hitoring well, a	aeria	l photos, pre	evious insp	pections),	if available:				
Describe Reco Remarks:	•	stream gauge, mon rs of wetland hydr				evious insp	pections),	if available:				
Remarks:	•					evious insp	pections),	if available:				
Remarks: SOILS	No indicato	rs of wetland hydro	ology were	obse	erved.				dicators)			
Remarks: SOILS Profile Descri	No indicato		eeded to do	obse	erved.	cator or co	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	eeded to do	obse	erved.	cator or co	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth ne etion, RM=Reduced M	eeded to dou	obse ocume vered/(ent the indic	cator or co Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)			
Remarks: SOILS Profile Descri	No indicato	be to the depth ne	eeded to dou	obse	erved.	cator or co Grains; Loca	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No indicato	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo	obse ocume vered/0 %	ent the indic Coated Sand C Color (I Color sare n S5 - Sandy R	cator or co Grains; Loca Moist) Moist) not presen edox	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matr es Type	Location	Indicators f	luck (LRR I, J)	ic Soils ¹
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	e: L3R				Sample Point: u-153n44w3-c1
VEGETATIO		re non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(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.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 15 x 3 = 45 FACU spp. 30 x 4 = 120
	Total Cover =	0	FACW spp. 0 $x 2 = 0$		
					FAC spp. 15 $X 3 = 45$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 30 x 4 = 120
1.					UPL spp. 0 $X 5 = 0$
2.					
3.		1			Total 45 (A) 165 (B)
4.					
5.					Prevalence Index = $B/A = 3.667$
6.					
7.					
8.	-1				Hydrophytic Vegetation Indicators:
9.	-1				Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	 Total Cover =	- 0			$\frac{1}{2} = \frac{1}{2} $
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)	45	Y	FACIL	Problem Hydrophytic Vegetation (Explain) *
1.	Artemisia biennis	15		FACU	* Indicators of budgie soil and watland budgeloov must be
2.	Trifolium repens	10	Y	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Panicum capillare	5	<u>N</u>	FAC	
4.	Plantago major	5	<u>N</u>	FAC	Definitions of Vegetation Strata:
5.	Echinochloa crus-galli	5	N	FAC	
6	Cirsium arvense	5	N	FACU	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.					1
11.					1
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.	1				1
15.	1				Woody Vines - All woody vines, regardless of height.
	Total Cover =	45			
Woody Vine S	Stratum (Plot size: 30 ft. radius)				
1					
2.					
3.					Hydrophytic Vegetation Present? N
5.	1				
	1				
4.	Total Cover -	= 0			
Dereerkei	Total Cover =				
Remarks:	Bare soil accounts for approximately 55 percent	cent of grou	und cover.		
Γ			_	_	
Additional F	Remarks:				