WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14
Applicant:		Enbridge			Subregion (MLPA or LPP): MLPA 56				County: State:	Pennington MN	
Investigators Soil Unit:	RAJ/BJC Subregion (MLRA or LRR): MLRA 56 I55A NWI Classification: PSS1C									Slate.	
Landform:	Depression				Local Relief	CC				Sample Point	:: w-153n44w2-d2
Slope (%):	0 - 2%		Latitude: 48.0934733 Longitude: -96.273184 Datum:								
		nditions on the sit			-	1		☑ Yes		Section:	
Are Vegetation		☑, or Hydrology□, or Hydrology	•	•		Are	e normal circun ☑ Yes	nstances pr □ No	esent?	Township:	Dir:
SUMMARY C		/ //		y problemati	5 !		▶ 162			Range:	DII.
Hydrophytic V			γ	Yes				Hydric Soi	Is Present?	Yes	
Wetland Hyd				Yes			Is This Sampling Poir				
Remarks:		•		d by hybrid c	attail, reed can	ary grass	s, bulrushes, ar	nd common	spike rush	in a depressi	ion. The soils have been
		nearby pipeline a	activities.								
HYDROLOG				·				1)			
Wetland Hy Primary:	•••	cators (Check al	II that appl	ly; Minimum	of one primary	or two so	econdary requi	red):	Secondary:		
	_ A1 - Surface \	Vater			□ B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Water Table				B13 - Aquatic Fauna						Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma			 □ C1 - Hydrogen Sulfide Odor □ C2 - Dry Season Water Table □ 							e Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimen						spheres on Living	Roots (not til	le 🗆	C8 - Crayfish	
	B3 - Drift Dep						educed Iron				n Visible on Aerial Imagery
	B4 - Algal Mat B5 - Iron Depo				□ C7 - Thin I □ Other (Exp		ace		2 2	D2 - Geomorp D5 - FAC-Neu	
	B7 - Inundatio	n Visible on Aerial In	magery								aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ	vations										
Surface Wate		Yes 🗆	г	Depth:	(in.)						
Water Table		Yes D		Depth: Depth:	(in.)			Wetland H	lydrology	Present?	Y
Saturation Pr		Yes 🗆		Depth:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco	orded Data (s	tream gauge, mon	nitoring wel	II, aerial photo	s, previous ins	pections),	, if available:				
Describe Reco Remarks:		tream gauge, mon ell-developed ma		· ·		-		ators of we	land hydrol	ogy are pres	ent.
Remarks:				· ·		-		ators of we	tland hydrol	ogy are pres	ent.
Remarks: SOILS	There is a w	ell-developed ma	at of wetlar	nd moss thro	bughout the sha	allow ma	rsh area. Indic		tland hydrol	ogy are pres	ent.
Remarks: SOILS Profile Descri	There is a w		at of wetlan	nd moss thro	e indicator or c	allow ma	rsh area. Indic	ndicators.)	tland hydrol	ogy are pres	ent.
Remarks: SOILS Profile Descri	There is a w	vell-developed ma be to the depth ne etion, RM=Reduced M	at of wetlan	nd moss thro	e indicator or c	onfirm the ation: PL=P	rsh area. Indic e absence of ir ore Lining, M=Mati	ndicators.)	tland hydrol	ogy are pres	ent.
Remarks: SOILS Profile Descri (Type: C=Concer	There is a w	vell-developed ma be to the depth ne etion, RM=Reduced M Matrix	at of wetlan	nd moss thro document the overed/Coated	e indicator or co Sand Grains; Loca	allow ma onfirm th ation: PL=P Mottle	rsh area. Indic e absence of ir Fore Lining, M=Mati	ndicators.) ^{rix)}		ogy are pres	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	There is a wind the second sec	vell-developed ma be to the depth no etion, RM=Reduced M Matrix Color (Moist)	at of wetlan	nd moss thro document the overed/Coated % Co	e indicator or c	onfirm the ation: PL=P	rsh area. Indic e absence of ir ore Lining, M=Mati	ndicators.)	Texture	ogy are pres	ent. Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	There is a ward ption (Description, D=Depleter is a ward of the second structure of the second structu	vell-developed ma be to the depth ne betion, RM=Reduced M Matrix Color (Moist) 2.5/1 2/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR	eeded to c Matrix, CS=Co heck here	document the overed/Coated % Co 100 100 100 if indicators S5 - Sa S6 - Str F1 - Loa F2 - Loa F3 - De F6 - Re F7 - De F8 - Re F16 - H	are not preser any Gleyed Matrix amy Gleyed Matrix amy Gleyed Matrix dox Dark Surface pleted Dark Surface dox Depressions	allow ma	rsh area. Indic	Location	Texture C M <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G Plains Depressi ced Vertic Parent Material Shallow Dark ain in Remarks	Remarks ic Soils ¹ (LRR F, G, H) iONS (LRR H, outside MLRA 72, 73) Surface ation and wetland hydrology must be present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	There is a ward intration, D=Deplet Hue_2.5Y Hue_10YR Hue_10YR Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mic S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy Glager S4 - Sandy Glager	vell-developed ma be to the depth no etion, RM=Reduced M Matrix Color (Moist) 2.5/1 2/1 ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR eyed Matrix	eeded to c Matrix, CS=Co heck here ce	nd moss thro bocument the overed/Coated % Co 100 100 100 100 100 100 100 10	e indicator or co Sand Grains; Loca	allow ma	rsh area. Indic	Location	Texture C M <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Tor Problemation Tor Problemation Sor Problemation Solution Prairie Redox Plains Depression Plains Dep	Remarks ic Soils ¹ (LRR F, G, H) iONS (LRR H, outside MLRA 72, 73) Surface ation and wetland hydrology must be present,

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w2-d2			
VEGETATIO		e 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: 2 (A)			
3.	J							
4.					Total Number of Dominant Species Across All Strata: 2 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.		0			OBL spp. 105 x 1 = 105			
	Total Cover =	0	FACW spp. 44 X 2 = 88					
					FACW spp. 44 x $2 =$ 88 FAC spp. 0 x $3 =$ 0 FACU spp. 0 x $4 =$ 0			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				$\begin{array}{ccc} & FACU spp. & 0 & X \ 4 = & 0 \\ & ACU spp. & ACU spp. & ACU spp. \end{array}$			
1.					UPL spp. 0 $x 5 = 0$			
2.								
3.					Total <u>149</u> (A) <u>193</u> (B)			
4.								
5.					$Prevalence Index = B/A = \underline{1.295}$			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.		0			X Dominance Test is > 50%			
	Total Cover =	0			$X = Prevalence Index is \le 3.0 *$			
					Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius)		V		Problem Hydrophytic Vegetation (Explain) *			
1.	Eleocharis palustris	60	•	OBL				
2.	Phalaris arundinacea	40	Y	FACW	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.	Scirpus pallidus	20	<u>N</u>	OBL				
4.	Carex lacustris	10	N	OBL	Definitions of Vegetation Strata:			
5.	Schoenoplectus acutus	10	N	OBL	-			
6	Carex retrorsa	5	<u>N</u>	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7.	Poa palustris	3	N	FACW	-			
8.	Rumex stenophyllus	1	N	FACW	Continue (Church Woody plants loss than 2 in DPH, regardless of height			
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.					4			
11.					-			
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.					4			
14.					Weedy Vince All weedy vince recordless of height			
15.	T / 10	4.40			Woody Vines - All woody vines, regardless of height.			
	Total Cover =	149						
Woody Vine St	ratum (Plot size: 30 ft. radius)				4			
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.	Tatal Occurs							
Deresser	Total Cover =		al n.e. a. a					
Remarks:	· · · · · · · · · · · · · · · · · · ·	e-rush and	a reed can	ary grass,	, with hybrid cattail, bulrushes, and broad-leaved sedges. Hydrophytic vegetation is			
	present.							
Additional Remarks:								