WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/01/15	
Applicant:		Enbridge			0 1 .	/A 41 D A		1415450		County:	Pennington	
Investigators		RAJ/BJC			_Subregio	`	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I32A				aal Dallaf		I Classification	:			450m 44404	
Landform: Slope (%):	Depression 0 - 2%		Latitude: 48.		cal Relief: Longitude:		720	Datum:		Sample Point:	w-153n44w13-c1	
, ,		nditions on the site						✓ Patum.	□ No	Section:		
Are Vegetation		☑, or Hydrology			ar: (11110, ex)		e normal circur			Township:		
Are Vegetation		□, or Hydrology	•	•		7.00	□ Yes	✓ No	2001101	Range:	Dir:	
SUMMARY C			-accuracy p	obiomano.			_ 100	- 110		range.	5	
Hydrophytic \			Yes					Hvdric Soil	s Present?	Yes		
Wetland Hyd	•		Yes		_					t Within A We	etland? Yes	
Remarks:				annual plants	within a cu	ultivated	field planted to	_			ed from herbicide use and	d
		soils are disturbe	•	•			•	•	•			
HYDROLOG					, ,	<i>,</i> 1			'			
		icators (Check all	I that annly: I	Minimum of or	ne nrimary	or two s	econdary requi	red):				
Primary:		icators (Check an	i tilat apply, i	viii iii ii di di	ie primary	OI two s	econdary requi	ied).	Secondary:			
<u> </u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa				B13 - Aqua				V		/egetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainage		(+:llod)
	B1 - Water M B2 - Sedimen				C2 - Dry S		ater Table spheres on Living	Roots (not till	⊔ • □	C8 - Crayfish E	Rhizospheres on Living Roots (Burrows	(tillea)
	B3 - Drift Dep	•			C4 - Prese			rtooto (not tiii	` <u> </u>	-	Visible on Aerial Imagery	
✓	B4 - Algal Ma				C7 - Thin N		ace		✓	D2 - Geomorph		
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neut		
		on Visible on Aerial Im tained Leaves	nagery							D7 - Frost-Hea	ved Hummocks (LRR F)	
"	D3 - Water-O	difica Leaves										
Field Observ	vations:											
Surface Water		Yes 🗆	Dep	th:	(in.)					_		
Water Table		Yes		th:	- (in.)			Wetland H	lydrology l	Present?	Υ	
Saturation Pr		Yes □	Dep		(in.)						_	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (c	stream gauge moni	itoring well a	erial photos pr		ections)	if available:					
	<u>`</u>				evious insp	<u> </u>		Drift donosi	its of oron o	uggoot o bigh	wester level for some peri	od
Describe Reco	The wetland	d is in an obvious	swale and ha	s a cracked s	evious insp oil surface	with a th	nin algal crust.			• •	water level for some perion	od.
Remarks:	The wetland		swale and ha	s a cracked s	evious insp oil surface	with a th	nin algal crust.			• •	•	od.
Remarks:	The wetland The area wa	d is in an obvious s as planted through	swale and han this year bu	s a cracked s t no soybeans	evious insp oil surface are growi	with a thing in the	nin algal crust. e wetland area	and those ne		• •	•	od.
Remarks: SOILS Profile Descri	The wetland The area water iption (Descri	d is in an obvious	swale and han this year bu	as a cracked s at no soybeans ument the ind	evious inspoil surface are growi	with a thing in the	nin algal crust. wetland area e absence of in	and those no		• •	•	od.
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Remarks: SOILS Profile Descri (Type: C=Concer	The wetland The area water iption (Description, Depoi	d is in an obvious sas planted through the to the depth neetion, RM=Reduced Matrix Color (Moist)	swale and han this year but be eded to document the swale and had been supported by the swale and had	ument the ind	evious inspoil surface are growing are growing are growing are growing are grains; Loca	with a the ng in the onfirm th tion: PL=P	nin algal crust. wetland area e absence of interesting the series of interesting the series of the	and those no		• •	•	od.
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7	The wetland The area water iption (Description, D=Depl	d is in an obvious sas planted through the to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	swale and han this year but be eded to doo latrix, CS=Cove	ument the ind	evious inspoil surface are growing are growing are growing are growing are growing are grains; Loca	with a the ng in the onfirm the tion: PL=P	nin algal crust. e wetland area e absence of inore Lining, M=Mat es Type	and those ne	ear the edg	• •		od.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7	The wetland The area water iption (Description, D=Depl	d is in an obvious sas planted through the to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	swale and han this year but be eded to doo latrix, CS=Cove	ument the ind	evious inspoil surface are growing are growing are growing are growing are growing are grains; Loca	with a the ng in the onfirm the tion: PL=P	nin algal crust. e wetland area e absence of inore Lining, M=Mat es Type	and those ne	ear the edg	• •		od.
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18	The wetland The area was iption (Description, D=Depl	Matrix Color (Moist) 2/1 5/1	swale and han this year but be eded to doo latrix, CS=Cove	ument the ind	evious inspoil surface are growing are gro	with a the ng in the onfirm the tion: PL=P	nin algal crust. e wetland area e absence of inore Lining, M=Mat es Type	and those ne	ear the edg	• •		od.
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	The wetland The area water iption (Description, Depoint Printer 10 YR Hue_10 YR Hue_2.5 Y Tic Soil Field A1- Histosol A2 - Histic Ep	Matrix Color (Moist) 2/1 5/1 Indicators (chairs)	swale and han this year but be eded to doo latrix, CS=Cove	as a cracked so the notate of some solutions and solutions are solved. Color (0) Hue_10YR S5 - Sandy R S6 - Stripped	evious inspoil surface are growing are gro	with a the ng in the onfirm the tion: PL=P Mottle 20 t):	e wetland area e absence of irore Lining, M=Mat es Type C	and those ne	Texture C C Indicators f A9 - 1 cm M A16 - Coast	or Problematic uck (LRR I, J) Prairie Redox (Remarks	od.
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	The wetland The area was iption (Description, D=Depl Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge	Matrix Color (Moist) 2/1 5/1 Indicators (chairs)	swale and han this year but eeded to doo latrix, CS=Covernment 10 80 and 10 and	as a cracked so the notate of some of the source of the so	evious inspoil surface are growing are gro	with a thing in the onfirm the tion: PL=P Mottle 20 t):	e wetland area e absence of irore Lining, M=Mat es C	and those ne	Texture C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	or Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	Remarks	iod.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	The wetland The area water iption (Description, Depoint Intration, Dep	Matrix Color (Moist) 2/1 5/1 Indicators (chairs)	swale and han this year but this year but the eded to doo latrix, CS=Cover 10 80 10 10 10 10 10 10 10 10 10 10 10 10 10	color (O) Hue_10YR S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F	evious inspoil surface are growing are gro	with a thing in the onfirm the tion: PL=P Mottle % 20 t):	e wetland area e absence of irore Lining, M=Mat es C	and those ne	Texture C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	or Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	Remarks Soils ¹ LRR F, G, H)	od.
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	The wetland The area water iption (Description, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	is in an obvious sas planted through the to the depth neetion, RM=Reduced Minimum Matrix Color (Moist) 2/1 5/1 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) ck (LRR FGH) id Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR cky Peat or Peat (LR)	swale and han this year but eeded to document the system of the system o	Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox R F7 - Depleted F8 - Redox R	evious inspoil surface are growing are growing are growing are growing are growing at the surface are	with a thing in the onfirm the tion: PL=P Mottle % 20 t):	e absence of in ore Lining, M=Mates Type C	and those ne	Texture C C C A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	e are stunted or Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic larent Material Shallow Dark S ain in Remarks)	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w13-c1
VEGETATIO	` '	re non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Species Ivaine</u>	<u> 78 COVEI</u>	Dominant	<u>IIIu.Status</u>	Dominance Test Worksheet
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					(7)
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					rotal Number of Berninant epocies Noross All Strata.
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.					(742)
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp $6 \times 1 = 6$
10.	_ı Total Cover =	= 0			FACW spp. 0
10tal Gover =					FAC spp. 35 $\times 3 = 105$
Sapling/Shrub Stratum (Plot size: 15 ft. radius)					FACU spp. $\frac{26}{26}$ \times $4 = \frac{104}{104}$
1.	etratam (Fiet 6ize. To the radias)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.		<u> </u>			
3.	-	1			Total 67 (A) 215 (B)
4.					(-/
5.		1			Prevalence Index = $B/A = 3.209$
6.	7	1			
7.	-	1			
8.		<u> </u>			Hydrophytic Vegetation Indicators:
9.		\			Rapid Test for Hydrophytic Vegetation
10.	-				Dominance Test is > 50%
	 Total Cover =	= 0			Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				X Problem Hydrophytic Vegetation (Explain) *
1.	Eragrostis pectinacea	30	Υ	FAC	FToblem Hydrophytic Vegetation (Explain)
2.	Eragrostis cilianensis	20	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Echinochloa crus-galli	5	i N	FAC	present, unless disturbed or problematic.
4.	Rorippa palustris	5	N	OBL	Definitions of Vegetation Strata:
5.	Artemisia biennis	5	N	FACU	Definitions of Vegetation offata.
6	Alisma triviale	1	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Setaria pumila	1	N	FACU	height (DBH), regardless of height.
8.	Setana punnia		11	1700	
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					Sapining/Sin ab - 11 cos, plante recent and 2 211, 11 cognitioned entropy
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					rierb - 7 in Horbacocas (Hori Woody) plants, regardose of 6125.
14.					
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cayor	67			VVOOdy Villes - 7 iii Woody Villes, Togardiose of Helghi.
	Total Cover =	= 67	_		
Manday	rotum (Diet einer 20 ft madica)				
vvoody vine St	ratum (Plot size: 30 ft. radius)				
7.	1				
2.					Hydrophytic Vogetation Brocent?
3.					Hydrophytic Vegetation Present? Y
5.					
4.	Total Carra				
Damarka	Total Cover =		ultivated field	d planted to a	covboans. The area was planted through this year but no soybeans are growing in the wetland area
Remarks:					soybeans. The area was planted through this year but no soybeans are growing in the wetland area. lominance test or prevalence index, there are scattered wetland obligates (yellow cress and water
	plantain) throughout the swale.	Though vegett	ation does no	or moor the o	offiniation test of prevalence index, there are scattered wetland obligates (yellow cress and water
Additional F	Remarks:				