WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/30/14
Applicant:		Enbridge			_					County:	Pennington
Investigators		BJC/RAJ			Subregion	(MLRA or I	,	MLRA 56		State:	MN
Soil Unit:	<u>I11A</u>						ssification	:			.=
Landform:	Talf		40.000		cal Relief: I					Sample Point:	u-153n44w12-a2
Slope (%):	0 - 2%		Latitude: 48.080			-96.256776		Datum:			
		nditions on the site			I f ! (If no, expla				□ No	Section:	
Are Vegetation	•	☑, or Hydrology				Are no		nstances pre	esent?	Township:	
Are Vegetation		□, or Hydrology	Daturally prob	iematic?			□ Yes	☑ No		Range:	Dir:
SUMMARY C									D 10	N	
Hydrophytic \			No						s Present?		(I IO No
Wetland Hyd			No							t Within A W	
Remarks:	•				ias been re	ecently plan	ted for the	winter. The	soils are dis	sturbed due to	o tilling. The vegetation is
		ue to herbicide app	olication and tilli	ing.							
HYDROLOG'	Y										
Wetland Hy	drology Indi	icators (Check all	that apply; Min	imum of on	e primary o	or two secor	ndary requi	red):			
Primary:	<u>.</u>	•						•	Secondary:		
	A1 - Surface \				B11 - Salt C					B6 - Surface S	
	A2 - High Wat				B13 - Aquati		L				Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma					jen Sulfide Od ason Water T				B10 - Drainage	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen				,			Roots (not tille		C8 - Crayfish E	
	B3 - Drift Dep	•				ice of Reduce		rtoots (not till		•	Note: The State of
	B4 - Algal Mat			_	C7 - Thin Mu		G G		_	D2 - Geomorp	
	B5 - Iron Dep				Other (Expla	ain)				D5 - FAC-Neut	
		n Visible on Aerial Ima	agery			·				D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ	vations:										
Surface Wate	er Present?	Yes □	Depth: _		(in.)			Wetland H	lydrology l	Present?	N
Water Table	Present?	Yes □	Depth:		(in.)			wetianu n	iyarology i	rieseiit:	<u>''</u>
Saturation Pr	Saturation Present? Yes Depth: (in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s			l photos, pre		ections), if a	vailable:				
	<u>`</u>	stream gauge, monit	toring well, aeria			ections), if av	vailable:				
Describe Reco	<u>`</u>		toring well, aeria			ections), if av	vailable:				
Remarks:	<u>`</u>	stream gauge, monit	toring well, aeria			ections), if av	vailable:				
Remarks:	No indicator	stream gauge, monit rs of wetland hydro	toring well, aeria	erved.	evious inspe	·		ndicators.)			
Remarks: SOILS Profile Descri	No indicator	stream gauge, monit	toring well, aeria	erved.	evious inspe	nfirm the ab	sence of ir				
Remarks: SOILS Profile Descri	No indicator	stream gauge, monit rs of wetland hydro be to the depth nee	toring well, aeria	erved.	evious inspe	nfirm the ab	sence of ir				
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Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	stream gauge, monit rs of wetland hydro be to the depth nee etion, RM=Reduced Ma	toring well, aeria	erved.	evious inspectator or cor Grains; Location	nfirm the ab	sence of ir ining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	stream gauge, monit rs of wetland hydro be to the depth nee etion, RM=Reduced Ma Matrix Color (Moist)	toring well, aeria	erved. ent the indicoated Sand G	evious inspectator or cor Grains; Location	nfirm the ab on: PL=Pore L Mottles	sence of ir	rix)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	stream gauge, monit rs of wetland hydro be to the depth nee etion, RM=Reduced Ma Matrix Color (Moist)	toring well, aeria	erved. ent the indicoated Sand G	evious inspectator or cor Grains; Location	nfirm the ab on: PL=Pore L Mottles	sence of ir ining, M=Matr	rix)			Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	No indicator iption (Descri	be to the depth need to the de	eded to docum htrix, CS=Covered/	ent the indicoated Sand C	cator or cor Grains; Location	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr	rix)			Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	No indicator	be to the depth need to the de	toring well, aeria	ent the indicoated Sand C	cator or cor Grains; Location	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr	rix)	SC		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	No indicator iption (Descri	be to the depth need to the de	eded to documentrix, CS=Covered/01000	ent the indicoated Sand Coolor (I	cator or cor Grains; Location Moist)	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr	Location	SC Indicators f	or Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicator Iption (Descriptration, D=Depleted on the properties of the properties	be to the depth need to the depth need to the depth need to the depth need to make the depth need to make the depth need to make the depth need to the depth	eded to documentrix, CS=Covered/01000	ent the indicoated Sand Coated Sand Color (I	cator or cor Grains; Location Moist) ot present)	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr	Location	Indicators f A9 - 1 cm M	uck (LRR I, J)	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicator iption (Descriptration, D=Depleted Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth need to the de	eded to documentrix, CS=Covered/01000	ent the indicoated Sand Coated Sand Color (I	cator or corerains; Location Moist) ot present) edox Matrix	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	stream gauge, monit rs of wetland hydro be to the depth nee etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (che	eded to documentrix, CS=Covered/01000	ent the indicoated Sand Coated Sand Sandy Robbits Sandy	cator or cor Grains; Location Moist) ot present) edox Matrix Jucky Mineral	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth need to the de	eded to documentrix, CS=Covered/0	ent the indicoated Sand Coated Sandy Response	cator or corerains; Location Moist) ot present) edox Matrix lucky Mineral leyed Matrix	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	stream gauge, monit rs of wetland hydro be to the depth nee etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (che	eded to documentrix, CS=Covered/edeck here if indicated in the content of the con	ent the indicoated Sand Coated	cator or coresions; Location Moist) ot present) edox Matrix lucky Mineral leyed Matrix Matrix	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur	be to the depth need to the de	eded to documentrix, CS=Covered/0100000000000000000000000000000000000	ent the indicoated Sand Coated Sandy Response	cator or coresponding to the coresponding to t	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduce TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur	stream gauge, monit rs of wetland hydro be to the depth nee etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (che ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eded to documentrix, CS=Covered/o	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or coresponding to the content of the content	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M	stream gauge, monit rs of wetland hydro be to the depth need to the depth need to the depth need to the detion, RM=Reduced Marx Matrix Color (Moist) 2/1 Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eded to documentrix, CS=Covered/0100000000000000000000000000000000000	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or coresponding to the content of the content	nfirm the abon: PL=Pore L Mottles %	sence of ir ining, M=Matr Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	Soils ¹ 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:	u-153n44w12-a2		
-								
VEGETATION		re non-native	species.)					
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.	<u>Species rvairie</u>	<u> 70 00001</u>	Dominaria	<u>ma.otatas</u>				
2.					Number of Dominant Species that are OBL,	FACW, or FAC: 0 (A)		
3.								
4.					Total Number of Dominant Species A	cross All Strata:1(B)		
5.								
6.					Percent of Dominant Species That Are OBL,	FACW, or FAC: <u>0.0%</u> (A/B)		
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.	_l Total Cover =	0			OBL spp.	0		
	Total Cover =				OBL spp. 0	0		
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACUSED $0 \times 4 =$	0		
1.	Stratam (Fiot Size: 15 ft. radias)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$	400		
2.								
3.					Total <mark>80</mark> (A)	400 (B)		
4.								
5.					Prevalence Index = B/A =	5.000		
6.					_			
7.								
8.					Hydrophytic Vegetation Indicators			
9.						r Hydrophytic Vegetation		
10.	10. T. 1.1.0				Dominance Te			
	Total Cover =	= 0		Prevalence In				
Horb Stratum (Diet eizer Eft rediue					Adaptations (Explain) *		
1.	Plot size: 5 ft. radius) Triticum aestivum	80	Y	NI	Problem Hydr	ophytic Vegetation (Explain) *		
2.	Thicam acsivam		<u>'</u>	111	* Indicators of hydric soil	l and wetland hydrology must be		
3.						disturbed or problematic.		
4.					Definitions of Vegetation Strata:			
5.					G			
6					Tree - Woody plants 3 i	in. (7.6cm) or more in diameter at breast		
7.						gardless of height.		
8.								
9.					Sapling/Shrub - Woody plants les	ss than 3 in. DBH, regardless of height.		
10.								
11.					All heathers are a	and the state of t		
12.					Herb - All herbaceous (I	non-woody) plants, regardless of size.		
13.								
14. 15.					Woody Vines - All woody vines,	regardless of height		
13.	Total Cover =	= 80			vvoody vines - / iii ii oody vines,			
	Total Cover =	- 00						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.	(ist size: se in radius)							
2.								
3.					Hydrophytic Vegetation	on Present?N		
5.								
4.								
<u> </u>	Total Cover =							
Remarks:	The upland sample point is dominated by w	neat sprout	S.					
	No. 10 a 10							
Additional Remarks:								