WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge								Date:09/26/14County:Pennington		
Investigators	:	MRK/OTG		Subregion (MLRA or LRR): MLRA 56						State: MN		
Soil Unit:	it: I50A NWI Classification:											
Landform:	Talf		1 11 1 10		ocal Relief:		000007	Determ		Sample Point: u-153n43w33-a1		
Slope (%):	0 - 2%	nditions on the sit	Latitude: 48.		-		6226667	Datum: ☑ Yes	□ No	_ Section:		
Are Vegetation	•	. I une sin 					e normal circum			Township:		
Are Vegetation		□, or Hydrology	•	•			⊠ Yes			Range: Dir:		
SUMMARY C			, , , , , , , , , , , , , , , , , , , ,									
Hydrophytic '	-		No		_				ls Present?			
Wetland Hyd			No				Is This Sampling Point With			nt Within A Wetland? No		
Remarks:	The upland	sample point is lo	ocated in a ci	ultivated whea	t field.							
HYDROLOG												
-	•••	icators (Check al	ll that apply;	Minimum of o	ne primary	or two se	econdary requi	red):	o 1			
Primary	<u>:</u> A1 - Surface '	Water		п	B11 - Salt	Crust			Secondary	<u>"</u> B6 - Surface Soil Cracks		
					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio				C1 - Hydro					B10 - Drainage Patterns		
	B1 - Water M B2 - Sedimen				C2 - Dry S C3 - Oxidiz		spheres on Living	Roots (not till	€ □	C3 - Oxidized Rhizospheres on Living Roots (tille C8 - Crayfish Burrows		
	B3 - Drift Dep	•			C4 - Prese	ence of Re	duced Iron			C9 - Saturation Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin M		ace			D2 - Geomorphic Position		
	B5 - Iron Dep B7 - Inundatio		naderv		Other (Exp	piain)				D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)		
 B7 - Inundation Visible on Aerial Imagery B9 - Water-Stained Leaves 												
Field Observ	vations:											
Surface Wat		Yes 🗆	Dep		_ (in.)			Wetland H	lydrology	Present? N		
Water Table		Yes 🗆	Dep		_ (in.)				.,			
Saturation P		Yes 🗆	Dep	oth:	_ (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
			-		-	pections),	if available:					
Remarks:		stream gauge, mon or secondary hyd	-		-	pections),	if available:					
Remarks: SOILS	No primary	or secondary hyd	rological indi	cators were o	bserved.			dicators)				
Remarks: SOILS Profile Descri	No primary		rological indi	cators were o	bserved. icator or co	onfirm the	e absence of in					
Remarks: SOILS Profile Descri	No primary	or secondary hyd	rological indi	cators were o	bserved. icator or co	onfirm the	e absence of in		-			
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydronic secondary	eeded to doc Aatrix, CS=Cove	cators were o	bserved. icator or co Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	or secondary hydronia ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	rological indi eeded to doc /atrix, CS=Cove	cators were o ument the inc red/Coated Sand	bserved. icator or co	onfirm the	e absence of in ore Lining, M=Matr		Texture	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	No primary	or secondary hydronia ibe to the depth nervision, RM=Reduced M Matrix Color (Moist) 2/1	rological indi eeded to doc Matrix, CS=Cove	cators were o	bserved. icator or co Grains; Loca (Moist)	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SIC			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-17	No primary iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic secondary hydronic second se	rological indi eeded to doc Aatrix, CS=Cove	cators were o ument the inc red/Coated Sand Color 0 8 Hue_10YF	bserved. icator or co Grains; Loca (Moist)	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	SIC SC	Remarks gravel mixed in		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-17 6-17	No primary	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic secondary hydronic second se	rological indi eeded to doc Matrix, CS=Cove	cators were o cument the inc red/Coated Sand Color 0 3 Hue_10YF	bserved. icator or co Grains; Loca (Moist)	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SIC SC SC			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-17	No primary iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic secondary hydronic second se	rological indi eeded to doc Aatrix, CS=Cove	cators were o cument the inc red/Coated Sand Color 0 3 Hue_10YF	bserved. icator or co Grains; Loca (Moist)	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SIC SC			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-17 6-17 17-20 NRCS Hydr	No primary	or secondary hydronic hydronic secondary hydronic secondary hydronic secondary hydronic secondary hydronic secondary hydronic secondary hydronic s	Prological indi eeded to doc Matrix, CS=Cove 9 10 30 60 10	cators were o	icator or co Grains; Loca (Moist) (Moi	onfirm the tion: PL=Pe Mottle % 2	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SIC SC SC COS Indicators A9 - 1 cm M A16 - Coast	gravel mixed in for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-17 6-17 17-20 NRCS Hydr	No primary	or secondary hydronic secondary hydronic secondary hydronic stice of the depth network of the	Prological indi eeded to doc Matrix, CS=Cove 9 10 30 60 10	cators were o	icator or co Grains; Loca (Moist) (Moist) 25/6 100 100 100 100 100 100 100 100 100 10	onfirm the tion: PL=Pe Mottle % 2 1 1 t):	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SIC SC COS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S	for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-17 6-17 17-20 NRCS Hydr	No primary	or secondary hydronic secondary hydronic secondary hydronic stice of the depth network of the	rological indi eeded to doc Aatrix, CS=Cove 9 10 3 6 10 10 heck here if i	cators were o	icator or co Grains; Loca (Moist) (Moi	onfirm the tion: PL=Pe Mottle % 2 1 1 t):	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SIC SC COS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S	for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-17 6-17 17-20 NRCS Hydr	No primary	or secondary hydronic secondary hydronic secondary hydronic structure for the depth network of the depth network o	rological indi eeded to doc Aatrix, CS=Cove 9 10 30 6 10 10 heck here if i	Cators were o	icator or co Grains; Loca (Moist) (Moi	onfirm the tion: PL=Pe Mottle % 2 2 t):	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SIC SC SC COS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F	for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-17 6-17 17-20 NRCS Hydr	No primary	or secondary hydronic secondary hydronic secondary hydronic stic secondary hydronic hydro	rological indi eeded to doc Aatrix, CS=Cove 9 10 3 6 10 10 heck here if i	cators were o	icator or co Grains; Loca (Moist) (Moi	onfirm the tion: PL=Pe Mottle % 2 2 t):	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SIC SC SC COS COS A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very	for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-17 6-17 17-20 NRCS Hydr	No primary	or secondary hydronic secondary hydronic secondary hydronic stic secondary hydronic	rological indi eeded to doo Aatrix, CS=Cove 9 10 30 6 10 10 heck here if i	cators were o	icator or co Grains; Loca (Moist) (Moi	onfirm the tion: PL=Pe Mottle % 2 2 t):	e absence of in ore Lining, M=Matr es Type C	ix)	SIC SC SC COS COS A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very	for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: u-153n43w33-a1	
VEGETATIO	(Species identified in all uppercase ar (Plot size: 30 ft. radius)	re non-native spec	cies.)			
Tree Stratum	<u>Species Name</u>	<u>% Cover Dor</u>	minant	Ind.Status	Dominance Test Worksheet	
1.				<u>Ind.Otatus</u>		
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)	
3.						
4.					Total Number of Dominant Species Across All Strata: 1 (B)	
5.	-]					
6.	-1				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)	
7.						
8.				t	Prevalence Index Worksheet	
9.					Total % Cover of: Multiply by:	
10.					$OBL spp. \qquad 0 \qquad X \ 1 = 0$	
	Total Cover =	0			OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.0x4 =0	
					FAC spp. 0 $x 3 = 0$	
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0	
1.					UPL spp. 95 X 5 = 475	
2.						
3.					Total <u>95</u> (A) <u>475</u> (B)	
4.						
5.					Prevalence Index = B/A = <u>5.000</u>	
6.						
7.						
8.					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) *	
	(Plot size: 5 ft. radius)			N.11	Problem Hydrophytic Vegetation (Explain) *	
1.	Triticum aestivum	95	Y	NI	* Indicators of budgic coll and wotland budgelogy must be	
2.					* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
3.			_			
<u>4.</u> 5.					Definitions of Vegetation Strata:	
<u> </u>					-	
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.	
8.						
9.	<u> </u>				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.	
10.	<u> </u>					
11.	1				-	
12.					Herb - All herbaceous (non-woody) plants, regardless of size.	
13.						
14.	1				-	
15.	<u> </u>				Woody Vines - All woody vines, regardless of height.	
	Total Cover =	= 95				
Woodv Vine S ^r	tratum (Plot size: 30 ft. radius)					
1.						
2.						
3.					Hydrophytic Vegetation Present? N	
5.						
4.						
	Total Cover =					
Remarks:	Upland sample point is dominated by cultiva	ated wheat.				
Additional F	Remarks:					