## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 09/27/14	
Applicant:	t: Enbridge									County: <u>Pennington</u> State: <u>MN</u>	
Investigators Soil Unit:	IS: MRK/OTG Subregion (MLRA or LRR): MLRA 56 NWI Classification:									State: <u>MN</u>	
Landform:	Talf Local Relief: LL									Sample Point: u-152n43w4-b1	
Slope (%):	0 - 2%		Latitude: 48.01		Longitude:			Datum:			
		onditions on the sit			ar? (If no, exp	1			□ No	Section:	
Are Vegetatio		I □, or Hydrology	• •			Are	e normal circum		esent?	Township:	
Are Vegetatio		I □, or Hydrology	Daturally prof	plematic?			Yes	□ No		Range: Dir:	
SUMMARY C Hydrophytic			No					Hydric Soil	s Prosont?	2 No	
Wetland Hyd	-		No		-					nt Within A Wetland? <b>No</b>	
Remarks:		nple point is locate		dominated I	by orchard	grass, s	mooth brome a				
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check al	I that apply; Mir	nimum of or	ne primary	or two se	econdary requir	ed):			
Primary:	<u>:</u>	·						,	Secondary:		
	A1 - Surface A2 - High Wa				B11 - Salt ( B13 - Aqua					B6 - Surface Soil Cracks	
	A2 - High Wa A3 - Saturatio				C1 - Hydrog		e Odor			B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns	
	B1 - Water M	larks			C2 - Dry Se	eason Wa	ter Table			C3 - Oxidized Rhizospheres on Living Roots (tilled)	
	B2 - Sedimer	•			C3 - Oxidiz C4 - Presei		pheres on Living	Roots (not tille	• •	C8 - Crayfish Burrows	
	B3 - Drift Dep B4 - Algal Ma				C4 - Presei					C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	
	B5 - Iron Dep	osits			Other (Expl					D5 - FAC-Neutral Test	
		on Visible on Aerial In	nagery							D7 - Frost-Heaved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves									
Field Observ	vations.										
Surface Wate		Yes 🗆	Depth:		(in.)						
Water Table		Yes D	Depth: Depth:		_ (in.) (in.)			Wetland H	lydrology	Present? N	
Saturation Pr		Yes D	Depth:		(in.)						
Describe Reco	orded Data (s	stream gauge, mon	vitoring well, aeri	al photos, pr	_ ` `	ections).	if available:				
Remarks:		or secondary hydi			-	,000101107,					
	· · · · · ·										
SOILS											
		ibe to the depth ne letion, RM=Reduced M									
				/Cualeu Jana	Giains, Looat			x,			
		Matrix				Mottle	es				
Depth (In.)		Color (Moist)	%	Color (	(Moist)	%	Туре	Location	Texture	Remarks	
0-15	Hue_10YR	2/1	100						SCL		
15-20	Hue_5Y	5/2	100						SIC	gravel mixed in	
										graver mixed m	
				L							
NRCS Hydr	ic Soil Field	Indicators (cł	heck here if ind	icators are i	not present	t):	✓				
		Indicators (cł			•	t):	2			for Problematic Soils <sup>1</sup>	
NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Ep	Ň		licators are i S5 - Sandy R S6 - Stripped	Redox	t):	2		A9 - 1 cm M		
	A1- Histosol A2 - Histic Ep A3 - Black His	bipedon stic		S5 - Sandy R S6 - Strippec F1 - Loamy N	Redox d Matrix Mucky Minera	al			A9 - 1 cm N A16 - Coast S7 - Dark S	for Problematic Soils <sup>1</sup> Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G)	
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	bipedon stic n Sulfide		S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy (	Redox d Matrix Mucky Minera Gleyed Matrix	al			A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problematic Soils <sup>1</sup> Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)	
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	bipedon stic n Sulfide I Layers (LRR F)		S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted	Redox d Matrix Mucky Minera Gleyed Matrix d Matrix	al x			A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	for Problematic Soils <sup>1</sup> Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic	
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	Dipedon stic In Sulfide I Layers (LRR F) Ick (LRR FGH) Ed Below Dark Surfac		S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted	Redox d Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface d Dark Surfa	al x			A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematic Soils <sup>1</sup> Muck (LRR I, J) t Prairie Redox (LRR F, G, H) turface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material v Shallow Dark Surface	
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	bipedon stic n Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surfac Dark Surface	Ce	S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Redox d Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface d Dark Surfa Depressions	al x ce			A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematic Soils <sup>1</sup> Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material	
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Restrictive Layer	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	bipedon stic In Sulfide Layers (LRR F) Ick (LRR FGH) ed Below Dark Surfac Dark Surface lucky Mineral Mucky Peat or Peat (LR Icky Peat or Peat (LR	Ce	S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High P	Redox d Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface d Dark Surfa Depressions Plains Depres	al x ce sions (ML	RA 72, 73 of LRR <b>Hydric So</b> i	. H)	A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematic Soils <sup>1</sup> Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material v Shallow Dark Surface ain in Remarks)	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-152n43w4-b1			
VEGETATIO	N (Species identified in all uppercase all	re non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	Species Name	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 3 (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.					$OBL spp. \qquad 0 \qquad x \ 1 = \qquad 0$			
	Total Cover =	0			FACW spp. 0 $x 2 = 0$			
					FAC spp. 0 $X 3 = 0$			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FAC spp. 0 x $3 =$ 0   FACU spp. 80 x $4 =$ 320			
1.					UPL spp. 35 X 5 = 175			
2.								
3.					Total 115 (A) 495 (B)			
4.					1			
5.					Prevalence Index = $B/A = 4.304$			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
		0			Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Dactylis glomerata	40	Y	FACU				
2.	Bromus inermis	35	Y	UPL	* Indicators of hydric soil and wetland hydrology must be			
3.	Lotus corniculatus	25	Y	FACU				
4.	Trifolium hybridum	15	N	FACU	Definitions of Vegetation Strata:			
5.		10						
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.					height (DBH), regardless of height.			
8.					-			
9.					<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH, regardless of height.			
10.					-			
11.	<u> </u>				-			
	<u> </u>				Herb - All herbaceous (non-woody) plants, regardless of size.			
12.					-			
13.	1				4			
14.					- Mondu Minner All woody visco, regardlage of height			
15.	I	A 4 P			Woody Vines - All woody vines, regardless of height.			
	Total Cover =	115	_					
Woody Vine St	ratum (Plot size: 30 ft. radius)				-			
1.					-			
2.								
3.					Hydrophytic Vegetation Present? N			
5.	<u> </u>				-			
4.								
	Total Cover =			• • •				
Remarks:	Upland sample point is dominated by orchai	rd grass, sr	nooth bror	ne and bir	rd's-toot tretoil.			
Additional Remarks:								