WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date:	07/29/14		
Applicant:		Enbridge							County:	Marshall		
Investigators		KRG/NTT			Subregion (I	MLRA or LRR):	MLRA 56		State:	MN		
Soil Unit:	1376A			<u> </u>		NWI Classifica	ation:					
Landform:	Talf		10		cal Relief: VL				Sample Point:	<u>u-157n47w7-b1</u>		
Slope (%):	0 - 2%		Latitude: 48.4		Longitude: -9		Datum:					
		nditions on the si			A f ? (If no, explain			□ No	Section:			
Are Vegetation		□, or Hydrology	•	ly disturbed?			rcumstances pre	esent?	Township:			
Are Vegetation		□, or Hydrology	□aturally p	roblematic?		✓ \	res □ No		Range:	Dir:		
SUMMARY C								L D	NI			
Hydrophytic \	•		No_		•			ls Present?		diameter No.		
Wetland Hyd			No			ala alitalaatla.a.a			t Within Α Wε			
Remarks: The upland point is located between an agricultural field and a roadside ditch wetland. Vegetation is dominated by white clover and wild rye.												
	·											
HYDROLOG'	Y											
Wetland Hy	drology Ind	icators (Check al	II that apply; N	Minimum of on	e primary or	two secondary r	equired):					
Primary:	_							Secondary:				
	A1 - Surface				B11 - Salt Cru				B6 - Surface So			
	A2 - High Wa				B13 - Aquatic					/egetated Concave Surface		
	A3 - Saturation B1 - Water M				C1 - Hydroger	on Water Table			B10 - Drainage	Rhizospheres on Living Roots	: (tilled)	
	B2 - Sedimen						iving Roots (not till	€ □	C8 - Crayfish B		, (tilled)	
	B3 - Drift Dep	•				of Reduced Iron	aring resea (not the	`		Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin Muc	k Surface			D2 - Geomorph			
	B5 - Iron Dep				Other (Explain)			D5 - FAC-Neut			
		n Visible on Aerial Ir	magery						D7 - Frost-Hea	ved Hummocks (LRR F)		
	B9 - Water-St	ained Leaves										
5 : 1101												
Field Observ					<i>,</i> , ,							
Surface Wate		Yes □		th:	(in.)		Wetland H	lydrology F	Present?	N		
Water Table		Yes □	Dep	th:	(in.)		Wollding	.ya.o.ogy .	10001111			
Saturation Pr	resent?	Yes □	Dep	th:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	stream gauge, mor	nitoring well, a	erial photos, pre	evious inspect	tions), if available):					
	`				evious inspect	tions), if available):					
Describe Reco	`	stream gauge, mor			evious inspect	l tions), if available	:					
Remarks:	`				evious inspect	l tions), if available):					
Remarks:	No indicato		rology were o	bserved.	·							
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydr	rology were o	bserved. ument the indi	cator or confi	rm the absence	of indicators.)					
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Remarks: SOILS Profile Descri	No indicato	be to the depth netion, RM=Reduced M	rology were o	bserved. ument the indiced/Coated Sand G	cator or confi Grains; Location:	rm the absence : PL=Pore Lining, M:	of indicators.) =Matrix)	Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth neetion, RM=Reduced Matrix	rology were o	ument the indicated Sand Control Color (I	cator or confi Grains; Location:	rm the absence : PL=Pore Lining, M: Mottles	of indicators.) =Matrix)	Texture C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth network to the depth network RM=Reduced Matrix Color (Moist)	rology were o	ument the indicated Sand Control Color (100)	cator or confi Grains; Location:	rm the absence : PL=Pore Lining, M: Mottles	of indicators.) =Matrix)	Texture C C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	rology were o	ument the indicated Sand Control Color (100)	cator or confi Grains; Location:	rm the absence : PL=Pore Lining, M: Mottles	of indicators.) =Matrix)	Texture C C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	rology were o	ument the indicated Sand Control Color (100)	cator or confi Grains; Location:	rm the absence : PL=Pore Lining, M: Mottles	of indicators.) =Matrix)	Texture C C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	rology were o	ument the indicated Sand Control Color (100)	cator or confi Grains; Location:	rm the absence : PL=Pore Lining, M: Mottles	of indicators.) =Matrix)	Texture C C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	rology were o	ument the indicated Sand Control Color (100)	cator or confi Grains; Location:	rm the absence : PL=Pore Lining, M: Mottles	of indicators.) =Matrix)	Texture C C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No indicator ption (Description, D=Deplementation, D=Deplementatio	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	rology were o	ument the indiced/Coated Sand Coated Sand	Cator or confi	rm the absence : PL=Pore Lining, M: Mottles % Type	of indicators.) =Matrix)	Texture C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	rology were o	ument the indicated Sand Control Color (100)	Cator or confi	rm the absence : PL=Pore Lining, M: Mottles	of indicators.) =Matrix)	C				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	No indicato Iption (Descriptration, D=Depl Hue_10YR Hue_2.5Y	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	rology were o	ument the indicators are r	Cator or configrains; Location: Moist) not present):	rm the absence : PL=Pore Lining, M: Mottles % Type	of indicators.) =Matrix) Location	C C	or Problematic			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	No indicato ption (Descriptration, D=Depl Hue_10YR Hue_2.5Y ric Soil Field A1- Histosol	be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (Color	rology were o	ument the indicators are r	Cator or configrains; Location: Moist) not present):	rm the absence : PL=Pore Lining, M: Mottles % Type	of indicators.) =Matrix) Location	Indicators f A9 - 1 cm M	uck (LRR I, J)	: Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	No indicator Iption (Description, D=Depl Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep	be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (City)	rology were o	bserved. ument the indicators are respectively.	Cator or configrains; Location: Woist) Not present): edox Matrix	rm the absence : PL=Pore Lining, M: Mottles % Type	of indicators.) =Matrix) Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (I	: Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (coloridation)	rology were o	color (IOO) S5 - Sandy R S6 - Stripped F1 - Loamy N	Cator or configrains; Location: Moist) Not present): edox Matrix Mucky Mineral	rm the absence : PL=Pore Lining, M: Mottles % Type	of indicators.) =Matrix) Location	Indicators for A9 - 1 cm M A16 - Coast S7 - Dark Su	uck (LRR I, J) Prairie Redox (I urface (LRR G)	: Soils¹ LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (color Sulfide	rology were o	color (IOO) S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	Cator or configrains; Location: Moist) Mot present): edox Matrix Mucky Mineral Bleyed Matrix	rm the absence : PL=Pore Lining, M: Mottles % Type	of indicators.) =Matrix) Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P	uck (LRR I, J) Prairie Redox (I urface (LRR G) Pains Depressio	: Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (Color Sulfide Layers (LRR F)	rology were o	color (IOO) S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	Cator or configrains; Location: Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix Matrix	rm the absence : PL=Pore Lining, M: Mottles % Type	of indicators.) =Matrix) Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc	uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio ed Vertic	: Soils¹ LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (color Sulfide	rology were o	color (IOO) S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D	Cator or configrains; Location: Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix Matrix	rm the absence : PL=Pore Lining, M: Mottles % Type	of indicators.) =Matrix) Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc TF2 - Red P	uck (LRR I, J) Prairie Redox (I urface (LRR G) Pains Depressio	E Soils¹ LRR F, G, H) INS (LRR H, outside MLRA 72, 73)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (cite and Sulfide Layers (LRR FGH) and Below Dark Surface ark Surface	rology were o	color (ID) S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or configrains; Locations Woist) Hot present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface Dark Surface epressions	rm the absence PL=Pore Lining, Management Mottles Type	of indicators.) =Matrix) Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio ed Vertic arent Material	E Soils¹ LRR F, G, H) INS (LRR H, outside MLRA 72, 73)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (cities a Sulfide Layers (LRR FGH) ark Surface ucky Mineral	rology were o	color (ID) S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or configrains; Locations Woist) Hot present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface Dark Surface epressions	rm the absence : PL=Pore Lining, M: Mottles % Type	of indicators.) =Matrix) Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio ed Vertic arent Material Shallow Dark S	E Soils¹ LRR F, G, H) INS (LRR H, outside MLRA 72, 73)		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (classical Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRC) cky Peat or Peat (LRC)	rology were o	color (ID) S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or configrains; Locations Woist) Hot present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface Dark Surface epressions	rm the absence PL=Pore Lining, Management Mottles Type	of indicators.) =Matrix) Location	Indicators for A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduct TF2 - Red P TF12 - Very Other (Explain Indicators of here)	uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio ed Vertic arent Material Shallow Dark S in in Remarks)	E Soils ¹ LRR F, G, H) INS (LRR H, outside MLRA 72, 73) urface	present,	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-157n47w7-b1			
					•			
VEGETATIO	N (Species identified in all uppercase ar	re non-native	species.)					
Tree Stratum ((Plot size: 30 ft. radius)							
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)			
3.								
4.					Total Number of Dominant Species Across All Strata:(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. 0			
	Total Cover =	0	FACW spp. $\underline{\qquad}$ $X 2 = \underline{\qquad}$ $\underline{\qquad}$ 10					
					FAC spp. $\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$ 30			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 85 $x 4 = 340$			
1.					UPL spp. $\frac{0}{0}$ $x = \frac{0}{0}$			
2.								
3.					Total 100 (A) 380 (B)			
4.								
5.					Prevalence Index = B/A = 3.800			
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) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Trifolium repens	40	Υ	FACU				
2.	Elymus repens	30	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Tanacetum vulgare	15	N	FACU	present, unless disturbed or problematic.			
4.	Plantago major	5	N	FAC	Definitions of Vegetation Strata:			
5.	Sonchus arvensis	5	N	FAC				
6	Hordeum jubatum	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.					height (DBH), regardless of height.			
8.								
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	100						
	rotal cover		_					
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.	Tatam (Fiot Size: Oo It: Tadias)							
2.								
3.					Hydrophytic Vegetation Present? N			
5.					Trydrophytic Vegetation i Tesent:			
4.				_				
<u>''</u>	Total Cover =	. 0						
Remarks:	The upland vegetation is dominated by white		d wild rve					
rtomants.	The apiana vegetation is dominated by write	o clover and	a wiid Tyc.					
A al al!4! a ac a ! 5	Dama autra							
Additional Remarks:								