WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										Date: County:	06/25/14		
Applicant: Enbridge											Kittson		
Investigators: BCS/BEH				Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit:	I248B			-			I Classification:						
Slope (%):	Side slope Local Relief: VV Sample Point: u-160n50w9-a1 Slope (%): 3 - 7% Latitude: 48.70245667 Longitude: -97.1121483333 Datum:												
		onditions on the site							□ No	Section:			
Are Vegetation		or Hydrology			xi : (ii 110, exp		e normal circun			Township:			
Are Vegetatio		□ or Hydrology				740	☑ Yes		000111.	Range:	Dir:		
SUMMARY OF FINDINGS													
Hydrophytic V			No					Hydric Soil	ls Present?	No			
Wetland Hyd	Irology Prese	ent?	No		•			Is This Sar	mpling Poir	t Within A W	etland? No		
Remarks:	The upland	sample point is loo	cated in an ag	ricultural field	d planted t	o wheat.							
HYDROLOG	Y												
		icators (Check all	that apply; M	inimum of on	e primary	or two se	econdary requi	red):					
Primary:		Mater		_		Omint			Secondary:				
	 A1 - Surface Water A2 - High Water Table 				B11 - Salt (B13 - Aqua					B6 - Surface S B8 - Sparsely	Vegetated Concave Surface		
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	e Patterns		
	B1 - Water M				C2 - Dry Se	eason Wa	iter Table				Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen B3 - Drift Dep				C3 - Oxidiz C4 - Prese	ed Rhizos	spheres on Living	Roots (not till	• 🛛		Burrows n Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp			
	B5 - Iron Dep	osits			Other (Exp	lain)				D5 - FAC-Neu	tral Test		
	B7 - Inundatio B9 - Water-Si	on Visible on Aerial Im	agery							D7 - Frost-Hea	aved Hummocks (LRR F)		
	D9 - Waler-Si	laineu Leaves											
Field Observ	vations												
Surface Wate		Yes 🛛	Denth	:	(in.)								
Water Table		Yes	Depth	:	(in.)			Wetland H	lydrology	Present?	Ν		
Saturation Pr		Yes			(in.)						<u> </u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary or secondary wetland hydrology indicators were observed.													
			-				if available:						
Remarks:			-				if available:						
			-				if available:						
Remarks: SOILS Profile Descri	No primary	or secondary wetla	eded to docu	ment the indi	ere observ	ved.	e absence of ir						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-13 13-20 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- ntration, D=Depi Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A1 - Deplete A2 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type:	or secondary wetter be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2.5/1 3/2 4/3 Indicators (ch ipedon stic Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral fucky Peat or Peat (LR ky Peat or Peat (LR)	eded to docu atrix, CS=Covere % 100 75 85 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	indicators we ment the indi d/Coated Sand (Color (I Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Gicators are r S6 - Stripped F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F1 - High Pli Depth:	ere observ cator or co Grains; Local Moist) 2.5/1 2.5/1 2.5/1 2.5/1 0.000 0.000 0.000 Matrix	ved.	e absence of ir ore Lining, M=Matr es Type C C C C Z RA 72, 73 of LRF	ILocation M M M	C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	tayer is a mix of i layer is a mix of i for Problematic luck (LRR I, J) Prairie Redox (L Urface (LRR G) Plains Depressio ced Vertic arent Material Shallow Dark S ain in Remarks) hydrophytic vegetal ed or problematic.	two colors. two colors. c Soils¹ RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) Surface		

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-160n50w9-a1				
VEOETATIO									
VEGETATION Tree Stratum (N (Species identified in all uppercase are Plot size: 30 ft. radius)	e non-native	species.)						
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3. 4.					Tatal Number of Deminant Cassies Assess All Strates 1 (D)				
4. 5.					Total Number of Dominant Species Across All Strata: 1 (B)				
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.	 Total Cover =	0			OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0				
		0	-		FACW spp. 0 $x^2 = 0$ FAC spp. 0 $x^3 = 0$				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$				
1.					UPL spp. 50 x 5 = 250				
2.									
3.					Total 50 (A) 250 (B)				
4. 5.	l				Prevalence Index = B/A = 5.000				
5. 6.									
7.	<u> </u>								
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	0	-		Prevalence Index is ≤ 3.0 *				
Herb Stratum (I	Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *				
1.	Triticum aestivum	50	Y	NI					
2.					* Indicators of hydric soil and wetland hydrology must be				
3.					present, unless disturbed or problematic.				
4.					Definitions of Vegetation Strata:				
5. 6					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.				
12.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	50							
Moody Vizz C	(Plot size: 20 ft radius)								
Woody Vine Sti 1.	ratum (Plot size: 30 ft. radius)								
2.	[
3.					Hydrophytic Vegetation Present? N				
5.									
4.	T-1-1-0	0							
Remarks:	Total Cover =	0 tivated whe	eat. The fi	eld annea	rs to have been recently sprayed, no other plants are present within the sample				
. tomunto.	area.			ora appea					
Additional Remarks:									