## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R				_						Date:	06/30/14
Applicant: Enbridge										County:	Kittson
Investigators: BCS/BEH				Subregion (MLRA or LRR): MLRA 56 NWI Classification:						State:	MN
Soil Unit: Landform:	I248A Talf			_	ool Doliof:		I Classification			Comula Deint	
Landform: Talf Local Relief: LL Sample Point: u-160n50w14-c1   Slope (%): 0 - 2% Latitude: 48.68183783 Longitude: -97.084992500 Datum:											
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)											
Are Vegetati		□ or Hydrology			ar r (ii iio, ox		e normal circur			Township:	
		, or Hydrology					Yes	□No		Range:	Dir:
SUMMARY (			, , ,							0	
Hydrophytic	Vegetation P	resent?	No					Hydric Soil	Is Present?	' No	
Wetland Hydrology Present?				No			Is This Sampling Poin			nt Within A W	etland? No
Remarks:	The upland	sample point is loo	cated upslop	e in an unfarn	ned upland	d corner	next to a tilled	wheat field			
HYDROLOG	Y										
		icators (Check all	that apply; N	linimum of on	e primary	or two s	econdary requi	ired):			
Primary	<u>r:</u> A1 - Surface	Mator			B11 - Salt	Cruct			Secondary	: B6 - Surface S	coll Crooke
	A1 - Surface A2 - High Wa				B13 - Aqua		1				Vegetated Concave Surface
					C1 - Hydro	gen Sulfic	de Odor			B10 - Drainage	e Patterns
	B1 - Water M			C2 - Dry Season Water Table							Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep			H	C3 - Oxidiz C4 - Prese	nce of Re	spheres on Living	ROOLS (NOT THE		C8 - Crayfish E	n Visible on Aerial Imagery
	B4 - Algal Ma	t or Crust			C7 - Thin M	Auck Surfa				D2 - Geomorp	hic Position
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu	
	B7 - Inundatio B9 - Water-Si	on Visible on Aerial Im	hagery							D7 - Frost-Hea	aved Hummocks (LRR F)
Field Obser	vations:										
Surface Water Present? Yes Depth: (in.) Wetland Hydrology Pres										Dues surf?	N
Water Table	Present?	Yes 🛛		h:				wetland F	iyarology	Present?	N
Saturation P	resent?	Yes 🛛	Dept	h:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s	stream gauge, moni	itoring well, a	erial photos, pr	evious insp	pections),	, if available:				
Describe Rec Remarks:		stream gauge, moni or secondary wetla	-		-		, if available:				
Remarks:			-		-		, if available:				
Remarks: SOILS	No primary	or secondary wetla	and hydrolog	y indicators w	ere observ	ved.					
Remarks: SOILS Profile Descr	No primary	or secondary wetla	and hydrolog	y indicators w ument the indi	ere observ	ved.	le absence of il				
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Remarks: SOILS Profile Descr	No primary	or secondary wetla	and hydrolog	y indicators w ument the indi	ere observ	ved.	e absence of i Pore Lining, M=Mat				
Remarks: SOILS Profile Descr	No primary	or secondary wetle be to the depth ne etion, RM=Reduced Ma	and hydrolog	y indicators w ument the indi ed/Coated Sand	ere observ cator or co Grains; Loca	ved. onfirm th tion: PL=P	e absence of i Pore Lining, M=Mat		Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary wetla be to the depth ne etion, RM=Reduced Ma Matrix	and hydrolog eeded to doci atrix, CS=Cover	y indicators w ument the indi ed/Coated Sand Color (1	ere observ cator or co Grains; Loca	ved. onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Mat	rix)	Texture		Remarks
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Remarks: SOILS Profile Descr (Type: C=Conce 9-18 9-18 9-18 18-21 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR WP Hue_2.5Y ric Soil Field 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 r Type: The soil proc	or secondary wetta be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 2.5Y 9/1 5/2 Indicators (ch ipedon stic Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR) ky Peat or Peat (LR)	and hydrolog eeded to doc: atrix, CS=Cover % 100 900 100 1	y indicators w ument the indi ed/Coated Sand ( Color (( ) Hue_2.5Y Hue_10YR Hue_10YR S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D F16 - High Pl Depth: Depth:	ere observer cator or cc Grains; Loca Moist) 4/1 2/1 edox Matrix Aucky Miner Sleyed Matri I Matrix ark Surface I Dark Surface I D	ved. ponfirm th tion: PL=P Mottl % 30 30 30 4 5 sice sisions (ML ponate/gy	e absence of in tore Lining, M=Mat es Type D C C RA 72, 73 of LRI Hydric Sc psum accumul	I Location	C C OT C C A9 - 1 cm M A16 - Cost F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expla	for Problematic Muck (LRR I, J) Prairie Redox (L Prairie Redox (L Plains Depressio ced Vertic Parent Material c' Shallow Dark S ain in Remarks) hydrophytic vegetal ed or problematic.	n accumulation/fine fragments <u>c Soils1</u> .RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-160n50w14-c1				
		re non-native	species.)						
Tree Stratum (	(Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.		70 COvel	Dominall	110.018105					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 2 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0 x 1 = 0				
	Total Cover =	0	_		FACW spp. 25 x 2 = 50				
					FAC spp. 10 x 3 = 30				
	Stratum (Plot size: 15 ft. radius)				FACU spp. <u>35</u> x 4 = <u>140</u>				
1.					UPL spp. <u>5</u> x 5 = <u>25</u>				
2.									
3.					Total <u>75</u> (A) <u>245</u> (B)				
4.									
5.					Prevalence Index = B/A = <u>3.267</u>				
6.									
7.					I boden e bodin. Ma en da di ne le alianda en c				
8.	<u> </u>				Hydrophytic Vegetation Indicators:				
<u>9.</u> 10.	<u> </u>				Rapid Test for Hydrophytic Vegetation				
10.	 Total Cover =	0			Dominance Test is > 50%				
		0	_		Prevalence Index is ≤ 3.0 *				
Harb Stratum (	Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	25	Y	FACW					
2.	Cirsium arvense	25	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Apocynum cannabinum	10	N	FAC	present, unless disturbed or problematic.				
4.	Bromus inermis	5	Ν	UPL	Definitions of Vegetation Strata:				
5.	Taraxacum officinale	5	Ν	FACU					
6	Trifolium hybridum	5	Ν	FACU	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 =	75	_						
Woody Viza Ct	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.				<u>.</u>					
4.	·								
	Total Cover =								
Remarks:	The upland sample area is dominated by re-	ed canary g	grass and	Canada ti	nistle.				
Additional Remarks:									