WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	06/28/14		
Applicant:		Enbridge									County:	Kittson		
Investigators	s:	BCS/BEH				Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN		
Soil Unit:	I248A													
Landform:	Talf Local Relief: LL									Sample Point	u-160n50w15-b1			
Slope (%):	0 - 2%		Latitude: 48	8.6889	2855	Longitude:	-97.093	3244492	Datum:					
Are climatic/	hydrologic co	nditions on the sit	te typical fo	or this t	time of yea	Ir? (If no, exp	olain in rema	arks)	□Yes	☑ No	Section:			
Are Vegetati		I ☑ or Hydrology						normal circun	nstances pre	esent?	Township:			
Are Vegetati		I ☐ or Hydrology						Yes	□No ·		Range:	Dir:		
SUMMARY (, , ,,	,								Ü			
Hydrophytic			No	0					Hydric Soil	ls Present?	' No			
Wetland Hyd			Ye								nt Within A W	etland? No		
Remarks:	The upland	sample point is lo			ield which	is domina	ted by bi	g bluestem an	d timothy. T	he area is a	adjacent to a	pre-existing pipeline corridor and		
Remarks: The upland sample point is located in a CRP field which is dominated by big bluestem and timothy. The area is adjacent to a pre-existing pipeline corridor and appears to lie over spoil from previous construction activities, which have significantly disturbed the soil.														
HYDROLOG	Υ		•					,						
		inatawa (Chank al	II 46-04-0-0-0-1-1	u Minim	of on									
Primary		icators (Check al	ıı tnat appıy	, iviinin	num or one	eprimary	or two se	econdary requi	rea):	Cocondon				
	A1 - Surface	Water			П	R11 - Salt (Crust			Secondary:	B6 - Surface S	Soil Cracks		
										Vegetated Concave Surface				
✓	A3 - Saturation					C1 - Hydro	gen Sulfid				B10 - Drainage	e Patterns		
	B1 - Water M					C2 - Dry Se						Rhizospheres on Living Roots (tilled)		
	B2 - Sedimer							pheres on Living	Roots (not till		C8 - Crayfish I			
	B3 - Drift Dep B4 - Algal Ma					C4 - Prese C7 - Thin M					D2 - Geomorp	n Visible on Aerial Imagery		
1 5	B5 - Iron Dep					Other (Exp		ice			D5 - FAC-Neu			
		on Visible on Aerial In	magery		_	O 11.101 (2.14)	,					aved Hummocks (LRR F)		
	B9 - Water-S		0 ,									, ,		
Field Obser	vations:													
Surface Wat	er Present?	Yes 🔲	De	epth:		(in.)						V		
Water Table	Present?	Yes ☑		epth:	8	(in.)			wetland H	lydrology l	Present?	Υ		
Saturation P		Yes 🗹		epth:	6	(in.)						_		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Saturation is present at 6 inches, and a high water table is present at 8 inches. Recent heavy rainfall has likely elevated the water table in the area.														
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Remarks:									avy rainfall	has likely e	elevated the w	vater table in the area.		
Remarks:									avy rainfall	has likely e	levated the w	ater table in the area.		
Remarks:	Saturation i	s present at 6 inch	hes, and a l	high w	vater table	is present	at 8 inch	nes. Recent he	·	has likely e	elevated the w	vater table in the area.		
Remarks: SOILS Profile Descr	Saturation i	s present at 6 inch	hes, and a h	high w	vater table	is present	at 8 inch	nes. Recent he	ndicators.)	has likely e	elevated the w	vater table in the area.		
Remarks: SOILS Profile Descr	Saturation i	s present at 6 inch	hes, and a h	high w	vater table	is present	at 8 inch	nes. Recent he	ndicators.)	has likely e	elevated the w	vater table in the area.		
Remarks: SOILS Profile Descr	Saturation i	s present at 6 incl ibe to the depth no etion, RM=Reduced M	hes, and a h	high w	vater table	is present	at 8 inch	nes. Recent he e absence of ir ore Lining, M=Mati	ndicators.)	has likely e	elevated the w	vater table in the area.		
Remarks: SOILS Profile Descr (Type: C=Conce	Saturation i	s present at 6 incl ibe to the depth ne etion, RM=Reduced M Matrix	hes, and a leeded to do	ocume vered/Co	vater table ent the indic oated Sand C	is present cator or co Grains; Local	onfirm the	nes. Recent he e absence of ir ore Lining, M=Matr	ndicators.)		elevated the w			
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-7 7-15 7-15 15-21 15-21 NRCS Hydi	Saturation i iption (Description) (Descripti	s present at 6 incl ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 2.5/1 5/3 Indicators (cl ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) cd Below Dark Surface lucky Mineral flucky Peat or Peat (LR leyed Matrix	hes, and a leeded to dodatrix, CS=Covered to dodatrix,	high w bocume vered/Co % 100 60 38 H 90 10 f indica Figure Figu	color (Note: 10 to	cator or co Grains; Local Moist) 6/6 ot presen edox Matrix ucky Minera leyed Matrix Matrix ark Surface Dark	at 8 inch confirm the tion: PL=Po Mottle % 2 2 tt): ce sions (ML	e absence of ir ore Lining, M=Matrices Type C RA 72, 73 of LRF Hydric So is significantly	Location M R H)	Texture C C C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explainless disturbed)	for Problematic fluck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Parent Material	Remarks c Soils¹ LRR F, G, H) Ons (LRR H, outisde MLRA 72, 73) Surface		

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-160n50w15-b1			
VEGETATIO		non-native	species.)					
Tree Stratum (Plot size: 30 ft. radius)							
	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.					Total Number of Dominant Species Across All Strata: 2 (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 x 1 = 0			
	Total Cover =	0			FACW spp. 0 x 2 = 0			
	-				FAC spp. 0 x 3 = 0			
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACU spp. 92 x 4 = 368			
1.	Stratum (Flot 6)22. To it. radias)				UPL spp. 0 x 5 = 0			
2.								
3.					Total <mark>92</mark> (A) 368 (B)			
4.					10tal <u>92 (</u> 71) <u>900 (</u> D)			
<u>4.</u> 5.					Providence Index = P/A = 4 000			
					Prevalence Index = B/A = 4.000			
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.	Andropogon gerardii	35	Υ	FACU				
2.	Phleum pratense	35	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Elymus trachycaulus	15	N	FACU	present, unless disturbed or problematic.			
4.	Cirsium arvense	5	N	FACU	Definitions of Vegetation Strata:			
5.	Melilotus officinalis	2	N	FACU				
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.			
13.								
14.				-				
15.					Woody Vines - All woody vines, regardless of height.			
o.	Total Cover =	92						
	Total Cover -	34	_					
Woody Vino Ct	ratum (Plot size: 30 ft. radius)							
1.	ratum (FIOL SIZE. 30 IL FACIUS)							
2.								
3.					Hudranhutia Vandatian Bussanto			
					Hydrophytic Vegetation Present? N			
5.				_				
4.				_				
D	Total Cover =	0	the of	and at 1				
Remarks:	The upland sample point is dominated by big	bluestem,	timothy, a	and slende	er wheatgrass.			
Additional R	Remarks:							
]								