WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R									Date:	07/30/14			
	Applicant: Enbridge									County:	Kittson		
Investigators: BEH/BCS/MRK				Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit:	1132A			_			I Classification:						
Landform:	Talf				cal Relief:					Sample Point:	u-159n49w10-b1		
Slope (%):	0 - 2%		Latitude: 48.60		Longitude:			Datum					
		nditions on the site			ar? (If no, exp					Section:			
Are Vegetatio		G or Hydrology				Are	e normal circum ☑ Yes	istances pr	esent?	Township:	5		
Are Vegetatio		G or Hydrology		blematic?			⊡ res			Range:	Dir:		
			NL.					Liudrie Cei	le Dressert?	Vee			
			NO NO	No			Hydric Soils Present? Yes Is This Sampling Point Within A Wetland? No			etland? No			
		sample point is loo		dy location i	n a larger	wheat fi	ald The site is i	unslone fro	mpling Poli m_and adia	acent to a roa			
Remarks.		sample point is lot			i a larger	wheat h			in, and adje				
HYDROLOG	v												
								1)					
		icators (Check all	that apply; M	inimum of on	e primary	or two s	econdary requi	red):	Coordon				
Primary:	A1 - Surface \	Water			B11 - Salt	Crust			Secondary:	B6 - Surface S	oil Cracks		
	A2 - High Wa				B13 - Aqua					B8 - Sparsely Vegetated Concave Surface			
	A3 - Saturatio				e Odor 🛛 🗖			B10 - Drainage Patterns					
	B1 - Water Ma			H	C2 - Dry S	eason Wa	iter Table spheres on Living	Dooto (not til		C3 - Oxidized C8 - Crayfish E	Rhizospheres on Living Roots (till	ed)	
	B2 - Sedimen B3 - Drift Dep			H	C4 - Prese	ed Rhizos	duced Iron	ROOLS (NOL UI			Nisible on Aerial Imagery		
	B4 - Algal Ma									D2 - Geomorp			
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neutral Test			
	B7 - Inundatio B9 - Water-St	on Visible on Aerial Im	lagery							D7 - Frost-Hea	aved Hummocks (LRR F)		
	b9 - Waler-Si	laineu Leaves											
Field Observ	vations												
Surface Wate		Yes 🛛	Dopth		(in.)								
		_		:				Wetland H	lydrology	gy Present? N			
	-	_					Water Table Present? Yes Depth: (In.)						
Saturation Present? Yes Depth: (in.)													
					,								
		stream gauge, moni	itoring well, ae	rial photos, pre	evious insp	pections),	if available:						
Describe Reco Remarks:		stream gauge, moni or secondary hydro	itoring well, ae	rial photos, pre	evious insp	pections),	if available:						
Remarks:			itoring well, ae	rial photos, pre	evious insp	pections),	if available:						
Remarks: SOILS	No primary	or secondary hydro	itoring well, aei ological indica	rial photos, pro ators were ob	evious insp served.	-		dicators)					
Remarks: SOILS Profile Descri	No primary		itoring well, aer ological indica	rial photos, pro ators were ob ment the india	evious insp served.	onfirm th	e absence of in						
Remarks: SOILS Profile Descri	No primary	or secondary hydro	itoring well, aer ological indica	rial photos, pro ators were ob ment the india	evious insp served.	onfirm th	e absence of in						
Remarks: SOILS Profile Descri	No primary	or secondary hydro	toring well, aer ological indica eeded to docu atrix, CS=Covere	rial photos, pro ators were ob ment the india	evious insp served.	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr						
Remarks: SOILS Profile Descri	No primary	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma	toring well, aer ological indica eeded to docu atrix, CS=Covere	rial photos, pro ators were ob ment the india	evious insp served. cator or co Grains; Loca	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr		Texture		Remarks		
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-159n49w10-b1
		e non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius) Species Name	N/ Course	Dominant	Ind Status	Dominance Test Worksheet
1.		% Cover	Dominant	Ind.Status	
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. 5 x 1 = 5
	Total Cover =	0			FACW spp. 20 x 2 = 40
					FAC spp. 40 x 3 = 120
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 35 x 4 = 140
1.					UPL spp. 0 x 5 = 0
2.					
3.					Total <u>100</u> (A) <u>305</u> (B)
4.					
5.					Prevalence Index = B/A = <u>3.050</u>
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) *
	Plot size: 5 ft. radius)	40	V	FAC	Problem Hydrophytic Vegetation (Explain) *
1. 2.	Sonchus arvensis	40	Y Y	FAC	* Indicators of hydric soil and wetland hydrology must be
	Ambrosia artemisiifolia	15		FACU FACU	present, unless disturbed or problematic.
<u>3.</u> 4.	Elymus repens	10	N N	FACU	Definitions of Vegetation Strata:
4. 5.	Hordeum jubatum Rumex stenophyllus	10 10	N	FACW	Demittoris of vegetation Strata.
5. 6	Lolium perenne	5	N	FACU	
7.	Chenopodium album	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.	Beckmannia syzigachne	5	N	OBL	
9.		0		ODL	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.	<u></u>				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.	·				
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	The sample point is dominated by sow thistle	e and com	mon ragwe	eed.	
Additional F	Remarks:				
P					