WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	08/02/14		
Applicant:		Enbridge									County:	Kittson		
Investigators	S:	BEH/BCS/MRK				Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN		
Soil Unit:	I140A					_	NWI	Classification	:					
Landform:	Side slope				Lo	cal Relief:	CL				Sample Point:	u-159n48w6-e1		
Slope (%):	16 - 25%		Latitude: 4	18 618		Longitude:		3761667	Datum:		1			
		nditions on the site							⊡Yes	□No	Section:			
						ar: (II IIO, exp								
Are Vegetati		or Hydrology			listurbed?		Are	normal circun	•	esent?	Township:			
Are Vegetati		☐ or Hydrology	∟ aturally	y probl	lematic?			Yes	□No		Range:	Dir:		
SUMMARY (OF FINDINGS	5												
Hydrophytic	Vegetation P	resent?	N	No					Hydric Soil	s Present?	No			
	drology Prese		<u></u>	No		-					nt Within A W	etland? No		
Remarks:					e of a man	-made her	m rough	nly 6 feet tall. T				r, quack grass, and thistle		
rtemants.		e berm is next to a								ommated by	y Sweet Glove	, quack grass, and initial	•	
		c beini is next to a	a welland	triat iii	ay have be	cir cicate	u as a 10	Suit of the ben	11.					
HYDROLOG	Υ													
Wetland Hy	drology Ind	icators (Check all	I that apply	v: Mini	mum of on	e primary	or two se	econdary requi	red):					
Primary		(,		, , , , ,			, .	Secondary:				
<u></u>	A1 - Surface \	Vater				B11 - Salt (Crust				B6 - Surface S	oil Cracks		
I =	A2 - High Wa					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface			
I =	A3 - Saturatio					C1 - Hydro						B10 - Drainage Patterns		
I =	B1 - Water Ma					C2 - Dry Se				☐ C3 - Oxidized Rhizospheres on Living Roots (tilled)				
I =	B2 - Sedimen							pheres on Living	Roots (not till		C8 - Crayfish E		(
I =	B3 - Drift Dep					C4 - Prese						Visible on Aerial Imagery		
I =	B4 - Algal Ma				_						D2 - Geomorp			
I =	B5 - Iron Dep					Other (Exp					D5 - FAC-Neut			
		n Visible on Aerial Im	nagery		_		- /					ived Hummocks (LRR F)		
	B9 - Water-St		0 ,									` ,		
_														
Field Obser	votional													
		_												
Surface Wat	ter Present?	Yes	С	Depth:		(in.)			Wetland H	lydrology	Drocont?	N		
Water Table	Present?	Yes \square	С	Depth:		(in.)			vvetianu n	iyurology i	rieseiit:	IN.		
Saturation P	resent?	Yes 🗆		Depth:		(in.)						_		
Conditional resources and Deput.														
Describe Rec	orded Data (s	tream gauge, moni	itoring well	II, aeria	l photos, pr	evious insp	ections),	if available:						
Describe Rec Remarks:		stream gauge, moni or secondary hydr					ections),	if available:						
							ections),	if available:						
Remarks:							ections),	if available:						
Remarks:	No primary	or secondary hydr	rological ir	ndicato	ors were ob	served.			ndicators)					
Remarks: SOILS Profile Descr	No primary	or secondary hydr	rological ir	ndicato	ors were ob	eserved.	onfirm the	e absence of ir						
Remarks: SOILS Profile Descr	No primary	or secondary hydr	rological ir	ndicato	ors were ob	eserved.	onfirm the	e absence of ir						
Remarks: SOILS Profile Descr	No primary	or secondary hydr be to the depth ne etion, RM=Reduced M	rological ir	ndicato	ors were ob	eserved.	onfirm the	e absence of ir ore Lining, M=Mati		I	I			
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary hydrone be to the depth neterion, RM=Reduced M	rological ir	docume overed/C	ent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mati	rix)					
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	rological ir eeded to d latrix, CS=Co	docume overed/0	ors were ob	cator or co	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks		
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	rological ir eeded to d latrix, CS=Co	docume overed/0	ent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mati	rix)	Texture C		Remarks		
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1	rological in	docume overed/0	ent the indi Coated Sand	cator or cc Grains; Local	onfirm the	e absence of ir ore Lining, M=Mati es Type	rix)	Texture C		Remarks		
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descri	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1	rological in	docume overed/0	ent the indi	cator or cc Grains; Local	onfirm the	e absence of ir ore Lining, M=Mati	rix)	С				
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 Indicators (chippedon	rological in	documedovered/C	ent the indicated Sand (Color (I	cator or co Grains; Local Moist) Moist) not presen edox Matrix	Mottle %	e absence of ir ore Lining, M=Mati es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils ¹		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-159n48w6-e1			
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:(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. 25 x 3 = 75			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 100 x 4 = 400			
1.					UPL spp. 0 x 5 = 0			
2.								
3.					Total 125 (A) 475 (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 *			
	. o.a. oo.o		_		Morphological Adaptations (Explain) *			
Herh Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Melilotus officinalis	40	Υ	FACU				
2.	Elymus repens	35	· Y	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Sonchus arvensis	20	N .	FAC	present, unless disturbed or problematic.			
4.	Cirsium arvense	20	N	FACU	Definitions of Vegetation Strata:			
5.	Lactuca serriola	5	N	FAC	Definitions of Vegetation offata.			
6	Astragalus agrestis	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	1.0009000	<u> </u>	- 11	17100	height (DBH), regardless of height.			
8.								
9.				_	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.				_	Oupling/Official - 11-11-17 France 1-11-17 1-19 11-11-17 1-19			
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
				-	Herb = 7 in herbacedas (non weeds) plants, regardless of size.			
13.								
14.				_	Woody Vines - All woody vines, regardless of height.			
15.	T.1.0	405			YYOOGY YIIIES - / III #OOGY YIIIES, TEYGRIGIESS OF HEIGHT.			
	Total Cover =	125	_					
	ratum (Plot size: 30 ft. radius)							
1.								
2.					Hardwards V. C. B. (O. V.			
3.					Hydrophytic Vegetation Present? N			
5.								
4.				_				
	Total Cover =	0						
Remarks:	The sample site is dominated by sweet clove	r and quad	ck grass.					
Additional R	Remarks:							