## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/02/14	
Applicant:		Enbridge								County:	Kittson	
Investigators:	BCS/BEH			Subregion (MLRA or LRR):				MLRA 56		State:	MN	
Soil Unit:	1123A NWI Classification:											
Landform:	Talf Local Relief:						LL				u-160n50w23-a1	
Slope (%):	0 - 2% Latitude: 48.66875267 Longitude:						474833	Datum:				
Are climatic/h		nditions on the site		this time of ye	ar? (If no, exp	olain in rema	arks)	⊡Yes	□No	Section:		
Are Vegetation		☑ or Hydrology		tly disturbed?		Are	normal circum	stances pro	esent?	Township:		
Are Vegetation	on 📮 Soil	☐ or Hydrology	☐aturally p	problematic?			Yes	□No		Range:	Dir:	
SUMMARY O	F FINDINGS	3										
Hydrophytic \	/egetation Pi	resent?	No					Hydric Soi	Is Present?	No		
Wetland Hyd	rology Prese	nt?	No		_			Is This Sar	mpling Poin	t Within A W	etland? No	
Remarks:	The upland	sample area is loo	cated in a til	led agricultura	I field which	h has be	en planted to s	ugar beets.	<u> </u>			
HYDROLOGY	Y											
		estere (Chask all	l that apply	Minimum of o	ao primaru	or two o	acandarı ( raqı il	rad\.				
Primary:		cators (Check all	і шасарріу,	IVIII III OI OI	ie primary	OI LWO S	econdary requir	eu).	Secondary:			
	A1 - Surface \	Vater			B11 - Salt	Crust				B6 - Surface S	oil Cracks	
A2 - High Water Table											Vegetated Concave Surfa	ce
	A3 - Saturatio				C1 - Hydro					B10 - Drainage		
	B1 - Water Ma				C2 - Dry S						Rhizospheres on Living R	oots (tilled)
	B2 - Sedimen						pheres on Living	Roots (not till		C8 - Crayfish E		
	B3 - Drift Dep B4 - Algal Mat									C9 - Saturation D2 - Geomorp	Note that I Visible on Aerial Imagery	/
	B5 - Iron Dep				Other (Exp		ice			D5 - FAC-Neu		
<b>=</b>		n Visible on Aerial Im	nagery	_	Other (Exp	iairi)					ived Hummocks (LRR F)	
	B9 - Water-St								_		(=:::: )	
Field Observ	ations:											
Surface Water	er Present?	Yes 🔲	De	oth:	(in.)					_		
Water Table		Yes ☑	Dei		(in.)			Wetland F	lydrology l	Present?	N	
Saturation Pr		Yes 🗹	De		(in.)						_	
Cataration		103		7tii. 17	_ ()							
		tream gauge, moni					if available:					
Describe Reco		tream gauge, moni or secondary wetla					if available:					
Remarks:							if available:					
Remarks:	No primary	or secondary wetla	and hydrolo	gy indicators w	ere observ	/ed.		dia-d				
Remarks:  SOILS Profile Descri	No primary	or secondary wetla	and hydrolo	gy indicators w	vere observ	ved.	e absence of in					
Remarks:  SOILS Profile Descri	No primary	or secondary wetla	and hydrolo	gy indicators w	vere observ	ved.	e absence of in					
Remarks:  SOILS Profile Descri	No primary	be to the depth ne	and hydrolo	gy indicators w	vere observ	onfirm the	e absence of in ore Lining, M=Matri					
Remarks:  SOILS Profile Descri (Type: C=Concen	No primary	or secondary wetla be to the depth ne etion, RM=Reduced Ma Matrix	and hydrolo eeded to doo latrix, CS=Cove	gy indicators w	vere observicator or co	onfirm the	e absence of in ore Lining, M=Matri es	ix)	Taytura		Pamarks	
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-6 6-15 15-21 15-21  NRCS Hydri	No primary  ption (Description)  Hue_10YR  Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  Gradient Solid Field  A1- Histosol  A2- Histic Ep  A3- Black His  A4- Hydroger  A4- Hydroger  A5- Stratffied  A9- 1 cm Mu  A11- Deplete  A12- Thick D  S1- Sandy Mi  S2- 2.5 cm Mu  S3-5 cm Mu  S4- Sandy Gi  Type:	be to the depth ne etion, RM=Reduced Mi  Matrix  Color (Moist)  2/1  3/1  6/2  Indicators (ch  ipedon  titic  n Sulfide  Layers (LRR F)  ck (LRR FGH) d Below Dark Surface  ark Surface  ucky Mineral  lucky Peat or Peat (LRI eyed Matrix	eeded to doo latrix, CS=Cover 9 110 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	gy indicators we coment the independent the in	icator or cc Grains; Loca Moist)  R 3/2 R 5/6 2.5Y 8/1  Inot presen Redox Matrix Mucky Minera Gleyed Matrix Olark Surface d Dark Surface	Mottle  Mottle  Mottle  State of the state o	e absence of in ore Lining, M=Matri	Location  M M M M H II Present?	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problematic luck (LRR I, J) Prairie Redox (L Lufface (LRR G) Plains Depression ced Vertic rarent Material Shallow Dark S ain in Remarks) hydrophytic vegetal ad or problematic.	tion  2: Soils¹  RR F, G, H)  OnS (LRR H, outside MLRA 72, 73)	

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-160n50w23-a1
VEGETATIO		e 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:1 (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
	1010. 0010.		_		FAC spp. 0 x 3 = 0
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.	Stratum (Flot Size. 15 ft. Fadius)				UPL spp. 20
2.					οι 2 ορρ. <u>20</u> λ ο <u>100</u>
3.					Total 20 (A) 100 (B)
3. 4.					Total <u>20</u> (A) <u>100</u> (B)
					Dravelance Index = D/A =F 000
5.					Prevalence Index = B/A = 5.000
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.	Beta vulgaris	20	Υ	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.
13.					
14.				_	
15.				_	Woody Vines - All woody vines, regardless of height.
10.	Total Carrar	20			Troody Fillion
	Total Cover =	20	_		
M/	on the set (Distriction and Green distriction)				
· · ·	ratum (Plot size: 30 ft. radius)				
1.					
2.				-	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3.				_	Hydrophytic Vegetation Present? N
5.					
4.					
_	Total Cover =	0			
Remarks:	The upland sample area is dominated by cul	tivated sug	ar beets.		
Additional R	temarks:				
	<del></del>				
İ					