## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/02/14	
Applicant:		Enbridge								County:	Kittson	
Investigators	Investigators: BCS/BEH/MRK			Subregion (MLRA or LRR): N						State:	MN	
Soil Unit:										1		
Landform:										Sample Point	u-159n48w6-d1	
Slope (%):	0 - 2%		Latitude: 48.6		Longitude:		62667	Datum:		1		
		nditions on the site							□No	Section:		
Are Vegetation		or Hydrology			ar . (ii iio, exp		normal circun			-1		
						AIC	✓ Yes	□No	esent:	Township:	D:-	
Are Vegetation		☐ or Hydrology	Liturally pro	obiematic?			⊡ res	Пио		Range:	Dir:	
SUMMARY C												
Hydrophytic '	•		No					Hydric Soil				
Wetland Hyd			No					Is This Sar	mpling Poir	nt Within A W	etland? <b>No</b>	
Remarks:	The upland	sample point is do	minated by a	Ifalfa and tim	othy. The	site is on	a narrow rise	between a g	gravel clear	ring and an ac	djacent narrow depre	ession.
HYDROLOG	V											
_		icators (Check all	that apply; M	inimum of on	e primary	or two se	condary requi	red):				
<u>Primary</u> :				_					Secondary:			
	A1 - Surface				B11 - Salt (					B6 - Surface S		
	A2 - High Wa A3 - Saturation				B13 - Aqua C1 - Hydro		Odor			B8 - Sparsely B10 - Drainage	Vegetated Concave Sur	tace
l H	B1 - Water M				C2 - Dry Se						Rhizospheres on Living	Roots (tilled)
	B2 - Sedimen						pheres on Living	Roots (not till		C8 - Crayfish I		rtoots (tilled)
1 5	B3 - Drift Dep			_	C4 - Prese			110010 (1101 1111			n Visible on Aerial Image	erv
I =	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp		,
	B5 - Iron Dep				Other (Exp					D5 - FAC-Neu	tral Test	
	B7 - Inundation	n Visible on Aerial Im	agery							D7 - Frost-Hea	aved Hummocks (LRR F	<del>-</del> )
	B9 - Water-S	ained Leaves										
Field Observ	vations:											
Surface Wat	er Present?	Yes 🔲	Denth	1:	(in.)							
Water Table		Yes 🗆	Depti	1:	(in.)			Wetland H	lydrology	Present?	N	
											_	
Saturation Present? Yes Depth: (in.)												
			-1	·	. ()							
Describe Rec	orded Data (s	stream gauge, moni		-	,	ections), i	if available:					
Describe Rec		stream gauge, moni	itoring well, ae	rial photos, pr	evious insp	ections), i	if available:					
			itoring well, ae	rial photos, pr	evious insp	pections), i	if available:					
			itoring well, ae	rial photos, pr	evious insp	pections), i	if available:					
Remarks:	No primary	or secondary hydro	itoring well, ae ological indic	rial photos, pro ators were ob	evious inspesserved.			ndicators.)				
Remarks:  SOILS Profile Descri	No primary		itoring well, ae ological indic	rial photos, pro ators were ob ment the indi	evious insposerved.	onfirm the	e absence of ir					
Remarks:  SOILS Profile Descri	No primary	or secondary hydro	itoring well, ae ological indic	rial photos, pro ators were ob ment the indi	evious insposerved.	onfirm the	e absence of ir					
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Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	itoring well, ae ological indic eeded to docu atrix, CS=Covere	rial photos, pro ators were ob ment the indi	evious insposerved.  cator or co	onfirm the	e absence of ir re Lining, M=Matr		Texture		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1	itoring well, ae ological indic eeded to docu atrix, CS=Covere	rial photos, prators were ob	evious insposerved.  cator or cograins; Locat	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr ors Type	Location	С	Mixed matrix; no		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-21  NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 4/2	eded to docu atrix, CS=Covere % 100 70	ment the indi d/Coated Sand  Color (i	cator or cc Grains; Local Moist)	monfirm the tion: PL=Po  Mottle  %  30	e absence of ir re Lining, M=Matr es Type C	Location M	C C	for Problemati	redox present	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-21  NRCS Hydr	No primary  iption (Description)  Hue 10YR  Hue 2.5Y  Hue 2.5Y  A1- Histosol  A2- Histic Ep  A3- Black His  A4- Hydroge  A5- Stratifice  A1- Thick D  S1- Sandy M  S2- 2.5 cm N  S3- 5 cm Mu	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 4/2  Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRK) Peat	toring well, ae ological indiceded to docuetrix, CS=Covere %  % 100 70  neck here if in	ment the indi d/Coated Sand i  Loop (I)  Hue_10YR  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy G  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	evious insposerved.  cator or cograins; Locat  Moist)  2/1  and presen  edox  Matrix  flucky Minera  Gleyed Matrix  I Matrix  ark Surface  t Dark Surfa  epressions	monfirm the tion: PL=Po  Mottle  %  30  tt):	e absence of ir re Lining, M=Matr is Type C	Location	Indicators 1 A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problematic for Problematic fuck (LRR I, J) I Prairie Redox i urface (LRR G) Plains Depressic ced Vertic Parent Material Parant Material Shallow Dark S ain in Remarks)	redox present  C Soils  (LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-159n48w6-d1
					·
VEGETATIO	N (Species identified in all uppercase are	non-native	species.)		
	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.					. Star Harrison of Dominant Opedica Adiosa Ali Ottata(D)
6.					Percent of Deminant Species That Are ORL EACH or EAC: 0.00/ (A/D)
					Percent of Dominant Species That Are OBL, FACW, or FAC: (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. 5
	-				FAC spp. 5 x 3 = 15
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 50 x 4 = 200
1.	,				UPL spp. 50 X 5 = 250
2.					··· <u></u>
3.					Total 110 (A) 475 (B)
4.					· • • • • • • • • • • • • • • • • • • •
					Dravolence Index = D/A = 4 040
5.					Prevalence Index = B/A = 4.318
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.	Medicago sativa	45	Υ	UPL	- Tobioin Hydrophydd Ydgalddin (Explain)
2.	Phleum pratense	30	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.			N	FACU	present, unless disturbed or problematic.
	Elymus repens	10		_	
4.	Trifolium hybridum	10	N	FACU	Definitions of Vegetation Strata:
5.	Bromus inemis	5	N	UPL	<b>_</b>
6	Hordeum jubatum	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Sonchus arvensis	5	N	FAC	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.				_	
					Woody Vines - All woody vines, regardless of height.
15.		410			TYOUGY VIIIES - 7 III WOODY VIIIOS, TOYAIDESS OF HEIGHT.
	Total Cover =	110	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.		-			
3.					Hydrophytic Vegetation Present? N
5.					
4.					
т.	Total Cover =	0			
Remarks:	The sample point is dominated by alfalfa and				
ixemarks.	The sample point is dominated by aliana and	umotny.			
Additional R	Remarks:				