WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/02/14		
Applicant:		Enbridge								County:	Kittson		
Investigators	i:	BEH/BCS/MRK			Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN		
Soil Unit: I140A				NWI Classification:									
Landform:										Sample Point:	u-159n48w6-d1		
Slope (%):	0 - 2%		Latitude: 48.6	1754557	Longitude:	-96.9046	6415000	Datum:	:	i '			
		nditions on the site						⊡Yes	□No	Section:			
Are Vegetation		☐ or Hydrology			21 1 (II 110, OA)		normal circun			Township:			
Are Vegetation		or Hydrology				7410	☑ Yes	□No	COCITE:		Die		
			Liturally pro	bblematic?			<u> </u>			Range:	Dir:		
SUMMARY C													
Hydrophytic \			Yes		_				ils Present?				
Wetland Hyd			Yes					Is This Sa	mpling Poir	nt Within A W	etland? Yes		
Remarks:	The wetland	d is a shallow mars	sh dominated	by narrow-le	af cattail. T	The site is	s located between	een a powe	rline corrido	or and a narro	w strip of alfalfa at the	e western	
	edge of a fla	at, gravel lot.											
HYDROLOG	Υ												
			that are a law M	!!		4						<u> </u>	
		icators (Check all	tnat apply; IVI	inimum of or	e primary	or two se	econdary requi	rea):					
Primary:		M-1			D44 0-114	0			Secondary:				
	A1 - Surface				B11 - Salt (B6 - Surface S			
	A2 - High Wa A3 - Saturation									B8 - Sparsely Vegetated Concave Surface			
1 5	B1 - Water M			☐ C2 - Dry Season Water Table ☐ C3 - Oxidized Rhizospheres on Living Roots (not tillt ☐							B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows		
I	B2 - Sedimen												
I =	B3 - Drift Dep										n Visible on Aerial Imager	rv	
	B4 - Algal Ma				C7 - Thin N	/luck Surfa	ce			D2 - Geomorp		,	
	B5 - Iron Dep	osits			Other (Exp	lain)			1	D5 - FAC-Neu	tral Test		
		n Visible on Aerial Im	agery							D7 - Frost-Hea	aved Hummocks (LRR F))	
	B9 - Water-St	ained Leaves											
Field Observ	vations:												
Surface Wate	er Present?	Yes 🔲	Denth	1:	(in.)					_			
Water Table		Yes 🗆	Denth	1:	(in.)			Wetland F	-lydrology	Present?	Υ		
Saturation Pr		Yes \square			(in.)								
Saturation Fi	iesent:	res 🗀	Depth	l	(111.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Reco	orded Data (s	tream gauge, moni	toring well, ae	rial photos, pr	evious insp	ections),	if available:						
Describe Reco		stream gauge, moni											
Remarks: SOILS	The wetland	d is located in a lov	w-lying area a	nd vegetation	n passes th	ne FAC-N	Neutral test.	ndicators.)					
Remarks: SOILS Profile Descri	The wetland		w-lying area a	nd vegetation	passes th	ne FAC-N	Neutral test.						
Remarks: SOILS Profile Descri	The wetland	d is located in a low	w-lying area a	nd vegetation	passes th	ne FAC-N	Neutral test.						
Remarks: SOILS Profile Descri	The wetland	d is located in a lov be to the depth ne etion, RM=Reduced Ma	w-lying area a	nd vegetation	passes th	onfirm the	Neutral test. e absence of iron of Lining, M=Matr						
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth ne etion, RM=Reduced Ma	eeded to docu	ment the indi	n passes the cator or co	onfirm the	Neutral test. e absence of irone Lining, M=Matr	ix)	Teyture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	w-lying area a geded to docu atrix, CS=Covere	nd vegetation	n passes the cator or co	onfirm the	Neutral test. e absence of iron of Lining, M=Matr		Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11	The wetland iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2.5/1	eeded to docu atrix, CS=Covere %	ment the indi	cator or co	onfirm the	Neutral test. e absence of ir ore Lining, M=Matr es Type	Location	С		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	w-lying area a geded to docu atrix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR	cator or co	onfirm the tion: PL=Po Mottle	Neutral test. e absence of ir ore Lining, M=Matr es Type C	Location M	C C		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-24 NRCS Hydr	The wetland Iption (Descrintration, D=Depl Hue 2.5Y Hue 2.5Y Hue 2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 Indicators (chaired in Sulfide Layers (LRR F) ck (LRR FGH) d Below Cark Surface ucky Mineral Lucky Peat or Peat (LRF) Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF) Peat or Peat (LRF)	w-lying area a eeded to docu atrix, CS=Covere % 100 82 neck here if in	ment the indid/Coated Sand Color (Hue_10YR Hue_2.5Y I S5 - Sandy R I S6 - Stripped I F6 - Redox D I F6 - Redox D I F7 - Depleted I F8 - Redox D I F8 - Redox D	cator or cc Grains; Local Moist) 6/6 2.5/1 not presen edox Matrix Mucky Minera Sleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	me FAC-Nonfirm the film the film PL=Po Mottle % 15 15 15 15 15 15 15 15 15 15 15 15 15	e absence of ir ore Lining, M=Matrices Type C C	Location M M C C C C C C C C C C C C C C C C C	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S ain in Remarks)	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	ist be present,	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-24 NRCS Hydr	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 Indicators (chairpedon Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface aucky Mineral lucky Peat or Peat (LlR Fleyed Matrix	w-lying area a seded to docustrix, CS=Covere % 100 82 seck here if in	ment the indid/Coated Sand Color (Hue_10YR Hue_2.5Y dicators are ii \$5 - Sandy R \$6 - Stripped R \$1 - Loamy R \$1 - Loamy R \$1 - Loamy R \$1 - Depleter \$1 - F6 - Redox E \$1 - F7 - Depleter \$1 - F6 - High Pl Depth:	cator or co Grains; Local Moist) 6/6 2.5/1 not presen edox Matrix Matrix Mutrix Mutrix Mutrix Mutrix Mutrix Mutrix Mutrix Mutrix Ar Surface I Dark Surface I Dark Surface I peressions ains Depres	me FAC-Nonfirm the stone PL=Po Mottle % 15 15 15 15 15 15 15 15 15 15 15 15 15	e absence of irrore Lining, M=Matrices Type C C C Hydric So	Location M M RH)	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF12 - Very Other (Expla	duck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetal ed or problematic.	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface		

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: u-159n48w6-d1
VEGETATIO	(Species identified in all uppercase are	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: 1 (A)
3.					Multiple of Bothinant opecies that are OBE, 1 AOW, of 1 AO(A)
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	_				——————————————————————————————————————
10.					OBL spp. 72
	Total Cover =	0	_		FACW spp. 15 x 2 = 30
					FAC spp. 0 x 3 = 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20
1.					UPL spp. 0 x 5 = 0
2.					
3.					Total 92 (A) 122 (B)
4.	_				
					D 1 1 1 20 100
5.					Prevalence Index = B/A = 1.326
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.	<u> </u>				Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	l Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	Total Cover –	0			
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Typha angustifolia	70	Y	OBL	
2.	Hordeum jubatum	15	N	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Elymus repens	5	N	FACU	present, unless disturbed or problematic.
4.	Schoenoplectus maritimus	2	N	OBL	Definitions of Vegetation Strata:
5.					,
6					Trop
					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					Holghi (BBH), regulatess 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.				_	All constructions on the Construction
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	92			
	•				
Woody Vine St	Stratum (Plot size: 30 ft. radius)				
1.	(. 101 0.201 00 10 100100)				
2.	1				
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland sample area is dominated by na		cattail.		
	The medalla cample aloa le acimilatea sy he		outtu		
Additional F	Remarks:				