WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	07/02/14
Applicant:		Enbridge									County:	Kittson
Investigators:		BCS/BEH				Subregio			MLRA 56		State:	MN
	I123A	123A NWI Classification: PEMA										
Landform:	Talf					cal Relief:		1=0000			Sample Point:	u-160n50w23-b1
	0 - 2%		Latitude: 4			Longitude:			Datum:		4	
		nditions on the sit				Ir? (If no, exp			☑Yes	□ No	Section:	
Are Vegetation		or Hydrology			listurbed?		Are	e normal circum ☑ Yes	Istances pro □No	esent?	Township:	D':
Are Vegetation		☐ or Hydrology	Litturally	y probi	emauc?			<u> </u>	Пио		Range:	Dir:
SUMMARY O									Lludria Cai	la Drasanto	No.	
			_	No No		•				Is Present?		otland? No
Wetland Hyde Remarks:				-	agricultural	field whiel	h hac ho	on planted to a			nt Within A W	etland? No y mapped as a PEMA NWI
ixemarks.	wetland.	sample area is loc	cateu iii a	uneu a	agricultural	neia wilici	ii iias be	en planted to s	ugai beets.	THE area v	vas previousi	y mapped as a F LIMA NVVI
HYDROLOGY												
		icators (Check all	II that apply	y; Mınıı	mum of on	e primary	or two se	econdary requii	red):	0		
Primary:		Nater			П	B11 - Salt (Crust			Secondary:	B6 - Surface S	Soil Cracks
						B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation	n				C1 - Hydro	gen Sulfid				B10 - Drainage	e Patterns
	B1 - Water M					C2 - Dry Se			D (((C))			Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep					C4 - Prese		spheres on Living	Roots (not till		C8 - Crayfish E	Burrows n Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin N					D2 - Geomorp	
	B5 - Iron Dep					Other (Exp	lain)				D5 - FAC-Neu	
	B7 - Inundation B9 - Water-St	n Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	ba - Walei-Si	allieu Leaves										
Field Observ	vations:											
Surface Water		Yes 🗆	Р	Depth:		(in.)						
Water Table		Yes 🔲		Depth:		(in.)			Wetland F	lydrology I	Present?	N
Saturation Pr		Yes 🗆		Depth:		(in.)						
						. , ,						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No primary or secondary wetland hydrology indicators were observed.												
. tomanto.	rto primary	or secondary wetta	land hydro	ology in	ndicators we	ere observ	/ed.					
	ito piinary	or secondary weti	land hydro	ology in	ndicators we	ere observ	/ed.					
SOILS		•		0,				e absence of in	idicators.)			
SOILS Profile Descri	ption (Descri	be to the depth ne	eeded to d	docume	ent the indi	cator or co	onfirm the					
SOILS Profile Descri	ption (Descri	be to the depth ne etion, RM=Reduced M	eeded to d	docume	ent the indi	cator or co	onfirm the	ore Lining, M=Matr				
SOILS Profile Descri (Type: C=Concen	ption (Descri	be to the depth ne etion, RM=Reduced M Matrix	eeded to d	docume overed/C	ent the indic	cator or co Grains; Locat	onfirm the tion: PL=Pe Mottle	ore Lining, M=Matr	ix)			
SOILS Profile Descri (Type: C=Concen	ption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to d	docume overed/C	ent the indi	cator or co Grains; Locat	onfirm the	ore Lining, M=Matr		Texture		Remarks
SOILS Profile Descri (Type: C=Concen	ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to d	docume overed/0	ent the indic Coated Sand (Color (f	cator or cc Grains; Local Moist)	onfirm the	es Type	Location	С		Remarks
SOILS Profile Descri (Type: C=Concen	ption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to d	docume overed/0	ent the indic	cator or co Grains; Locat	onfirm the tion: PL=Pe Mottle	ore Lining, M=Matr	ix)			Remarks
SOILS Profile Descri (Type: C=Concen	ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to d	docume overed/0	ent the indic Coated Sand (Color (f	cator or cc Grains; Local Moist)	onfirm the	es Type	Location	С		Remarks
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SOILS Profile Descri (Type: C=Concen	ption (Descrintation, D=Depi	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3	eeded to d	% 100 96 F	ent the indic Coated Sand (Color (f	Cator or co Grains; Locat Moist)	Mottle %	es Type	Location	C		
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SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-9 9-21 NRCS Hydri	ption (Descritration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 5/3 Indicators (ch	eeded to d	docume overed/C % 100 96 F	Color (I Hue_10YR cators are r	cator or co Grains; Local Moist) 5/8 not presen edox Matrix	Mottle %	ore Lining, M=Matr	Location M	Indicators f A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	c Soils ¹ .RR F, G, H)
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SOILS Profile Descri (Type: C=Concent Depth (In.) 0-9 9-21 NRCS Hydri	ption (Descritration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 5/3 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to d latrix, CS=Cc	% 100 96 F S S F F F F F F F F F F F F F F F F	Color (I Color (I Hue_10YR Cators are r S5 - Sandy R S6 - Stripped 1 - Loamy M 2 - Loamy G 3 - Depleted 6 - Redox D 7 - Depleted 8 - Redox D	Moist) 5/8 tot presented Matrix lucky Mineralleyed Matrix Matrix Matrix Surface Dark Surfae epressions	Mottle Mottle 4 4 tt):	ore Lining, M=Matr	Location M	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S0 F16 - High F F16 - Red P TF2 - Red F TF12 - Very	fuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ded Vertic Parent Material	c Soils ¹ LRR F, G, H) DDS (LRR H, outisde MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-160n50w23-b1
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:(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.					(-1_)
8.					Prevalence Index Worksheet
9.					
10.					
10.					OBL spp. 0 x 1 = 0
	Total Cover =	0	_		FACW spp. 0 x 2 = 0
					FAC spp. 0 x 3 = 0
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.					UPL spp. <u>20</u> x 5 = <u>100</u>
2.					
3.			<u> </u>	·	Total 20 (A) 100 (B)
4.					
5.					Prevalence Index = B/A = 5.000
6.					
7.	_				
8.					Hydrophytic Vegetation Indicators:
9.					• • • •
					Rapid Test for Hydrophytic Vegetation
10.	J				Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Beta vulgaris	20	Y	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.					Supring on as a second of the
11.				_	All harbassays (non-yearth) plants, regardless of sign
12.				_	Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.				_	
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	20			
	·		_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	, , , , , , , , , , , , , , , , , , , ,				
2.					
3.				_	Hydrophytic Vegetation Present? N
5.					Tryurophytic vegetation Fresents 14
	<u> </u>			_	
4.	T-1-10			_	
D	Total Cover =	0	andre to	TL -	and the first base base and a second as a
Remarks:		itivated sug	gar beets.	The area	appears to have been sprayed as no other vegetation was present at the time of
	survey.				
Additional R	temarks:				
	•				