WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/14/14
Applicant:	Enbridge									County:	Red Lake
Investigators	•			Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit:	I59A NWI Classification:										
Landform:	Talf		Local Relief: LL						Sample Point	u-151n42w24-i1	
Slope (%):	3 - 7%			47.8837428		-95.982		Datum:			
Are climatic/h		nditions on the sit						⊡Yes	□ No	Section:	
Are Vegetation		☐ or Hydrology				Are	normal circun	•	esent?	Township:	
Are Vegetation		☐ or Hydrology	□aturally	y problemat	ic?			□No		Range:	Dir:
SUMMARY C											
Hydrophytic \			<u>N</u>	No				Hydric Soi			
Wetland Hyd	Irology Prese	nt?		No						nt Within A W	
Remarks:	Upland sam	ple area is locate	d in a clea	ared field ne	xt to an existing	g pipeline	corridor. The	vegetation is	s dominate	d by slender	wheatgrass and alfalfa.
HYDROLOG	Υ										
Wetland Hy	drology Ind	cators (Check all	I that appl	lv [.] Minimum	of one primary	or two se	econdary requi	red):			
Primary:		Catoro (Oncon an	r triat appi	, wiii iii ii a	or one primary	0. 1	occinaci y roqui	100).	Secondary	:	
	A1 - Surface \			■ B11 - Salt					B6 - Surface S		
	A2 - High Wa			☐ B13 - Aquatic Fauna ☐							Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma				☐ C1 - Hydro					B10 - Drainag	e Patterns Rhizospheres on Living Roots (tilled
	B2 - Sedimen						spheres on Living	Roots (not till		C8 - Crayfish	
	B3 - Drift Dep				C4 - Prese			. 10010 (1.01 1			n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin I		ace			D2 - Geomorp	
	B5 - Iron Dep				☐ Other (Exp	olain)				D5 - FAC-Neu	
	B7 - Inundation	n Visible on Aerial Im	nagery							D7 - Frost-He	aved Hummocks (LRR F)
"	D3 - Water-St	allieu Leaves									
Field Observ	vatione:										
Surface Water		Vaa 🗖	-	Conth:	(in)						
Water Table		Yes □ Yes □		Depth: Depth:	(in.) (in.)			Wetland F	lydrology	Present?	N
Saturation Pr		Yes 🗆			(in.)						_
				Depth:							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
						pections),	if available:				
Remarks:		etream gauge, mon or secondary wetl				pections),	if available:				
Remarks:						pections),	if available:				
Remarks: SOILS	No primary	or secondary wetl	and hydro	ology indicat	ors observed.			odinatora V			
Remarks: SOILS Profile Descri	No primary	or secondary wetle	and hydro	blogy indicated	ors observed. e indicator or c	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No primary	or secondary wetl	and hydro	blogy indicated	ors observed. e indicator or c	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No primary	or secondary wetl be to the depth ne etion, RM=Reduced M	and hydro	blogy indicated	ors observed. e indicator or c	onfirm the	e absence of ir ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary weth be to the depth ne etion, RM=Reduced M Matrix	and hydro	ology indicated	ors observed. e indicator or c Sand Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	ix)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	and hydro	document the overed/Coated %	ors observed. e indicator or c	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4	No primary iption (Descri	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1	and hydro	document the overed/Coatect	ors observed. e indicator or c Sand Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	ix)	SCL	Gravel fragments	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-12	No primary iption (Descri	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 3/1	and hydro	document the overed/Coatect % CC 100 50	ors observed. e indicator or c Sand Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	ix)	SCL SCL	Gravel fragments	s present
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4	No primary iption (Descri	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1	and hydro	document the overed/Coatect	ors observed. e indicator or c Sand Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	ix)	SCL	Gravel fragments	s present
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-12	No primary iption (Descri	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 3/1	and hydro	document the overed/Coatect % CC 100 50	ors observed. e indicator or c Sand Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	ix)	SCL SCL	1	s present
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-12 4-12	No primary iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 4/2	eeded to d	document the overed/Coatect	e indicator or c Sand Grains; Loca olor (Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	ix)	SCL SCL	1	s present
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-12 4-12 NRCS Hydr	No primary iption (Descrintration, D=Depleter Hue_10YR Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 4/2	eeded to d	document the overed/Coated % CO 100 50 50 if indicators	e indicator or c Sand Grains; Loca olor (Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SCL SCL SCL	Gravel fragments	s present s present
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-12 4-12 NRCS Hydr	No primary iption (Descrintration, D=Deplementation, D=Deplementat	be to the depth neterion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 4/2 Indicators (chapted on the color in	eeded to d	ology indicated document the overed/Coated with the overed/Coated wi	e indicator or c Sand Grains; Loca olor (Moist) olor (Moist) a are not preser andy Redox ripped Matrix	onfirm the stion: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	SCL SCL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast	Gravel fragments for Problemati luck (LRR I, J) Prairie Redox	c Soils¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-12 4-12 NRCS Hydr	No primary iption (Descrintration, D=Deplementation, D=Deplementa	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 4/2 Indicators (chapedon etic)	eeded to d	ology indicated document the overed/Coated Sology indicated Sology indicat	e indicator or c Sand Grains; Loca olor (Moist) o are not preser andy Redox ripped Matrix amy Mucky Miner	onfirm the stion: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	SCL SCL SCL SCL Indicators : A9 - 1 cm N A16 - Coast S7 - Dark S	Gravel fragments for Problemati luck (LRR I, J) Prairie Redox urface (LRR G)	c Soils¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-12 4-12 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 4/2 Indicators (chapedon etic)	eeded to d	S5 - S. S6 - S. F1 - Lc F2 - Lc	e indicator or c Sand Grains; Loca olor (Moist) olor (Moist) a are not preser andy Redox ripped Matrix	onfirm the stion: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	SCL SCL SCL SCL Indicators : A9 - 1 cm N A16 - Coast S7 - Dark S	Gravel fragments for Problemati fluck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils¹ (LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-12 4-12 NRCS Hydr	Hue_10YR Hue	be to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 4/2 Indicators (chain and a sufficient of the control	eeded to delatrix, CS=Co	S5 - S. S6 - S. F6 - R. F7 - D. F8 - R.	e indicator or c Sand Grains; Loca olor (Moist) olor (Moist) s are not preser andy Redox ripped Matrix namy Mucky Miner amy Gleyed Matrix adox Dark Surface poleted Dark Surface adox Depressions	onfirm the thin: PL=Per Mottle % %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	For Problemati Muck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi 2ed Vertic Parent Material	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w24-i1				
VEGETATION	(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: 0 (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.					(42)				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.	J				OBL spp. 0 x 1 = 0				
	Total Cover =	0	_		FACW spp. 4 x 2 = 8				
					FAC spp. 0 x 3 = 0				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 97 x 4 = 388				
1.					UPL spp. 25 X 5 = 125				
2.				-					
3.					Total 126 (A) 521 (B)				
4.					· · · · · · · · · · · · · · · · · · ·				
5.					Prevalence Index = B/A = 4.135				
6.					7.100				
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 (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Elymus trachycaulus	50	Υ	FACU					
2.	Medicago sativa	25	Υ	UPL	* Indicators of hydric soil and wetland hydrology must be				
3.	Cirsium arvense	15	N	FACU	present, unless disturbed or problematic.				
4.	Symphyotrichum ericoides	10	N	FACU	Definitions of Vegetation Strata:				
5.	Taraxacum officinale	10	N	FACU	Definitions of Vegetation offata.				
					Troo				
6	Solidago canadensis	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.	Poa compressa	5	N	FACU	rieight (DDH), regaluless of height.				
8.	Phleum pratense	2	N	FACU					
9.	Symphyotrichum lanceolatum	2	N	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.	Agrostis gigantea	2	N	FACW					
11.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
13.	Total Carran	106			,				
	Total Cover =	126	_						
_ ·	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover =	0		_					
Remarks:			ss and alfa	alfa, with a	a variety of other forbs and graminoids interspersed throughout.				
. tomanto.	Spising duriple and to dominated by sichlact	outgra	oo ana an	, **IUI C	2. 14.15ty 5. 54.16t forbo and grammorae interoperated throughout.				
Additional Remarks:									
<u> </u>									