## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R					<u></u>			Date:	10/08/14			
Applicant:	Enbridge							= . = .		County:	Red Lake			
	nvestigators: KRG/BCS			Subregion (MLRA or LRR): MLRA 56						State:	MN			
	Soil Unit: 159A				ad Daliafe		Classification:			Camala Daint	454 m40 m45 ii4			
Landform: Slope (%):	Rise 0 - 2%	Latitude	: 47.89		cal Relief: Longitude:		0125	Datum:		Sample Point	u-151n42w15-ii1			
		nditions on the site typica							□No	Section:				
Are Vegetati				disturbed?	ii: (ii iio, exp		normal circum			Township:				
Are Vegetati		or Hydrology 🗀 tur				Aic	✓ Yes	□No	Cociii:	Range:	Dir:			
SUMMARY OF FINDINGS														
Hydrophytic Vegetation Present?  No Hydric Soils Present? No														
Wetland Hyd	-		No							t Within A W	etland? No			
Remarks:				pslope from	the assoc	iated dite	ch wetland in a	n agricultura	al field. Ved	etation is do	minated by planted wheat with			
Remarks: The upland sample area is located slightly upslope from the associated ditch wetland in an agricultural field. Vegetation is dominated by planted wheat with common panic grass.														
HYDROLOGY														
		esters (Chook all that a	nalve Min	nimum of on	o primary	or two co	noondary roqui	rod):						
Primary		cators (Check all that ap	ppiy, iviii	illillulli oi on	e primary	OI IWO SE	econdary requi	eu).	Secondary:					
	A1 - Surface \	Vater			B11 - Salt	Crust				B6 - Surface S	Soil Cracks			
Ar - Surface Water  Ar - Surface Water  Ar - Surface Water				☐ B13 - Aquatic Fauna						☐ B8 - Sparsely Vegetated Concave Surface				
	A3 - Saturatio			☐ C1 - Hydrogen Sulfide Odor☐ ☐ C2 - Dry Season Water Table☐ ☐							e Patterns			
	B1 - Water M										Rhizospheres on Living Roots (tilled)			
	B2 - Sedimen B3 - Drift Dep				C3 - Oxidiz C4 - Prese			Roots (not till		C8 - Crayfish I	Burrows n Visible on Aerial Imagery			
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp				
	B5 - Iron Dep				Other (Exp					D5 - FAC-Neu				
		n Visible on Aerial Imagery								D7 - Frost-Hea	aved Hummocks (LRR F)			
	B9 - Water-St	ained Leaves												
							ı							
Field Obser														
	er Present?	_	Depth:		(in.)			Wetland H	lydrology I	Present?	N			
Water Table		Yes	Depth:						.,		<u></u>			
Saturation Present? Yes Depth: (in.)														
			Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
	orded Data (s	tream gauge, monitoring v	vell, aeri	al photos, pre	evious insp	ections),	if available:							
		tream gauge, monitoring vor secondary indicators of					if available:							
Describe Rec							if available:							
Describe Rec Remarks:	No primary	or secondary indicators of	f wetlar	nd hydrology	were obs	erved.								
Describe Rec Remarks: SOILS Profile Descri	No primary	or secondary indicators of the to the depth needed to	f wetlar	nd hydrology	were obs	erved.	e absence of in							
Describe Rec Remarks: SOILS Profile Descri	No primary	or secondary indicators of	f wetlar	nd hydrology	were obs	erved.	e absence of in							
Describe Rec Remarks: SOILS Profile Descri	No primary	be to the depth needed to the depth needed to the depth needed to the depth needed to the too, RM=Reduced Matrix, CS	f wetlar	nd hydrology	were obs	erved.  onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr		I	I				
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth needed to the depth needed to the Matrix, CS	docun Covered	nd hydrology nent the indid //Coated Sand C	were obs	erved.  onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr	ix)	Taskura		Demonto			
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	be to the depth needed to the depth needed to the Matrix CS  Matrix  Color (Moist)	docun Covered	nd hydrology	were obs	erved.  onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr		Texture		Remarks			
Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	No primary  ption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR	be to the depth needed to	docun Covered % 100	nent the indid //Coated Sand C	were obs	erved.  onfirm the tion: PL=Per Mottle	e absence of in ore Lining, M=Matr es Type	Location	L		Remarks			
Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-7  7-9	No primary  ption (Descrintration, D=Depli  Hue_10YR  Hue_2.5Y	be to the depth needed the ton, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1 6/3	docum Covered % 100 75	nd hydrology nent the indid //Coated Sand C	were obs	erved.  onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr	ix)	Texture L S		Remarks			
Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7 7-9 9-13	No primary  ption (Descrintration, D=Depli  Hue_10YR  Hue_2.5Y  Hue_10YR	be to the depth needed to the depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  6/3  2/1	docun Covered % 100 75	nent the indicated Sand Coated Sand Color (N	were obs cator or cc Grains; Loca Moist)	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location M	L S L		Remarks			
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Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7 7-9 9-13 13-18	ption (Descriptration, D=Deplied Hue 10YR Hue 2.5Y Hue 2.5Y	be to the depth needed tetion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  6/3  2/1  6/3	0 docum Covered % 100 75 100 75	nent the indicated Sand Color (No. 1978)  Hue_10YR  Hue_10YR	were obs cator or cc Grains; Loca  Moist)  4/6  4/6	erved.  onfirm the tion: PL=Pe  Mottle  %  25	e absence of in ore Lining, M=Matr es Type C	Location M	L S L		Remarks			
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Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7 7-9 9-13 13-18  NRCS Hydr	ption (Description, D=Deplied Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y	be to the depth needed tetion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  6/3  2/1  6/3	o docun Covered % 100 75 100 75	nent the indicate the indicate sand of the indicate	were obs cator or co crains; Loca  Moist)  4/6  4/6  ot presen	erved.  onfirm the tion: PL=Pe  Mottle  %  25	e absence of in ore Lining, M=Matr es Type C	Location  M  M	L S L S	or Problemati				
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Describe Rec Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7 7-9 9-13 13-18  NRCS Hydr	No primary  ption (Description, D=Deplication, D=De	be to the depth needed to	% 100 75 100 75	nent the indice //Coated Sand Coolor (Note: 10 May 19 May	were obs cator or co grains; Local Moist)  4/6  4/6  oot presen edox Matrix	months with the served of the	e absence of in ore Lining, M=Matr es Type C	Location  M  M	L S L S Indicators f A9 - 1 cm M	luck (LRR I, J) Prairie Redox	c Soils <sup>1</sup> (LRR F, G, H)			
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-ii1				
VEGETATIO	N (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: 1 (B)				
5.					(=)				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.					(700)				
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				
					FAC spp. 10				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 2 x 4 = 8				
1.					UPL spp. 50 x 5 = 250				
2.									
3.					Total 62 (A) 288 (B)				
4.					\ '\\-',				
5.					Prevalence Index = B/A = 4.645				
6.					1 revalence maex = B/A = 4.043				
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.	Triticum aestivum	50	Υ	NI					
2.	Panicum capillare	10	N	FAC	* Indicators of hydric soil and wetland hydrology must be				
3.	Taraxacum officinale	2	N	FACU	present, unless disturbed or problematic.				
4.	- Taranadam dinamara		111	17100	Definitions of Vegetation Strata:				
					Definitions of vegetation strata.				
5.					T				
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.					neight (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.	T-1-1 O-	60			1100ay 111100,g				
	Total Cover =	62	_						
*.	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.				-	Hydrophytic Vegetation Present? N				
5.				_					
4.									
r.	Total Cover =	0							
Remarks:			ecently ba	rvested C	Common panic grass and dandelion are also present. Approximately 40% of the				
i teiriai na.			Journal Ha	i vosi <del>c</del> u. C	on mon panio grass and dandelion are also present. Approximately 40 % of the				
sample area is bare soil between the planted rows.									
Additional Remarks:									