## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date:	10/03/14
Applicant:		Enbridge							County:	Red Lake
Investigators		LEB/DGL			Subregion (	MLRA or LRR):	MLRA 56		State:	MN
Soil Unit:	159A	LLD/D OL	l .		_cabi ogion (	NWI Classification			Ciaio.	
					aal Daliafi M		·		OI- D-1-1	454×40×45 bb4
Landform:	Side slope				cal Relief: V			1	Sample Point:	u-151n42w15-hh1
Slope (%):	0 - 2%		Latitude: 47.		Longitude: -9		Datum:			
Are climatic/	hydrologic co	nditions on the site	e typical for	this time of year	ar? (If no, explai	n in remarks)	☑Yes	□ No	Section:	
Are Vegetati	on 🗆 Soi	☐ or Hydrology	□anifican	tly disturbed?		Are normal circun	nstances pro	esent?	Township:	
Are Vegetati		or Hydrology					□No		Range:	Dir:
			Laturally p	noblematic:		<b>1</b> 103			Range.	DII.
SUMMARY (										
Hydrophytic '	Vegetation P	resent?	No					Is Present?		
Wetland Hyd	Irology Prese	nt?	No		_		Is This Sar	mplina Poin	t Within A We	etland? No
Remarks:					tland next to	a field access road.		1 5		
rtcinants.	The apiana	oumpie point is lot	cated apolo	pe nom me we	dana next to	a noia access road.				
<b>HYDROLOG</b>	Υ									
Wotland Hy	drology Ind	icatore (Chack all	that annly:	Minimum of on	e primary or	two secondary requi	rod).			
		icators (Crieck all	i iliai appiy,	IVIII III OI OI	e primary or	two secondary requi	ieu).	0		
Primary		Matan			D44 C=# C=			Secondary:		ail Canalia
	A1 - Surface				B11 - Salt Cru				B6 - Surface S	
	A2 - High Wa				B13 - Aquatic					Vegetated Concave Surface
	A3 - Saturation					n Sulfide Odor			B10 - Drainage	
	B1 - Water M					son Water Table				Rhizospheres on Living Roots (tilled)
	B2 - Sedimen					Rhizospheres on Living	Roots (not till		C8 - Crayfish E	
	B3 - Drift Dep					e of Reduced Iron				Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin Muc				D2 - Geomorp	
	B5 - Iron Dep			Ш	Other (Explain	٦)			D5 - FAC-Neut	
		n Visible on Aerial Im	nagery						D7 - Frost-Hea	ived Hummocks (LRR F)
	B9 - Water-S	ained Leaves								
Field Obser	vations:									
		V		. 0	(in )					
	er Present?		Dep	oth:	(in.)		Wetland H	lydrology F	Present?	N
Water Table	Present?	Yes $\square$	Dep	oth:	(in.)			.,		_ <u></u>
Saturation P	resent?	Yes $\square$		oth:	(in.)					
D 1 D	1 15 1 1					(; ) (f ) 1   1				
Describe Rec		stream gauge, moni			evious inspec	•				
Describe Rec Remarks:		stream gauge, moni or secondary indic			evious inspec	•				
					evious inspec	•				
Remarks:					evious inspec	•				
Remarks:	No primary	or secondary indic	cators of wet	tland hydrology	evious inspec	ved.	ndicators )			
Remarks:  SOILS Profile Descri	No primary	or secondary indic	cators of wet	tland hydrology	evious inspect were observator or conf	ved.				
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Remarks:  SOILS Profile Descri	No primary	or secondary indicates be to the depth ne	cators of wet	tland hydrology	evious inspect were observator or conf	ved.  irm the absence of in PL=Pore Lining, M=Mate				
Remarks:  SOILS Profile Descri	No primary	or secondary indices be to the depth ne etion, RM=Reduced Matrix	eeded to doo atrix, CS=Cove	cument the indi	evious inspect were observing cator or conf Grains; Location	ved.  firm the absence of in PL=Pore Lining, M=Mate  Mottles				
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1	eeded to doc atrix, CS=Cove	cument the indiered/Coated Sand	evious inspect were observing cator or conf Grains; Location	ved.  firm the absence of in PL=Pore Lining, M=Mate  Mottles	rix)	SIL		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18	No primary iption (Descr ntration, D=Dept  Hue_10YR  Hue_10YR	or secondary indicates  be to the depth neletion, RM=Reduced Matrix  Color (Moist)  2/1  4/1	eeded to docatrix, CS=Cove	tland hydrology cument the indi cred/Coated Sand	evious inspec  were observator or conf Grains; Location  Moist)	ved.  firm the absence of in: PL=Pore Lining, M=Mati  Mottles  % Type	rix)	SIL		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR	or secondary indicates  be to the depth neletion, RM=Reduced Matrix  Color (Moist)  2/1  4/1	eeded to doc atrix, CS=Cove	cument the indicated Sand (Color (ICO))  Color (ICO)	evious inspec vwere observ cator or conf Grains; Location  Moist)  not present):	ved.  firm the absence of in: PL=Pore Lining, M=Mati  Mottles  % Type	Location	SIL SIL	or Problematic	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR A1- Histosol	be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to doceatrix, CS=Covered to doceatrix, C	cument the indicators are r	evious inspec cator or conf Grains; Location  Moist)  not present):	ved.  firm the absence of in: PL=Pore Lining, M=Mati  Mottles  % Type	Location	SIL SIL Indicators f A9 - 1 cm M	uck (LRR I, J)	: Soils¹
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to docatrix, CS=Cove	tland hydrology  cument the indi  red/Coated Sand (  Color ()  Color ()  cument the indi  Color ()  cument the indi  cument t	evious inspec were observation cator or conf Grains; Location  Moist)  Moist)  not present): edox Matrix	ved.  firm the absence of in: PL=Pore Lining, M=Mati  Mottles  % Type	Location	SIL SIL Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (	: Soils¹
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	No primary  iption (Description (Description)  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 4/1  Indicators (chairs)	eeded to docatrix, CS=Cove	cument the indicators are r	evious inspec were observation  cator or conf Grains; Location  Moist)  not present):  edox Matrix Mucky Mineral	ved.  firm the absence of in: PL=Pore Lining, M=Mati  Mottles  % Type	Location	SIL SIL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox ( urface (LRR G)	: Soils¹ LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	No primary  iption (Description, D=Depl  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Histic Ep A4 - Hydroge	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to docatrix, CS=Cove	tland hydrology  cument the indi  fred/Coated Sand of the color (1)  Color (1	evious inspec v were observ cator or conf Grains; Location  Moist)  Moist)  edox Matrix Mucky Mineral Gleyed Matrix	ved.  firm the absence of in: PL=Pore Lining, M=Mati  Mottles  % Type	Location	SIL SIL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	: Soils¹
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	No primary  iption (Description, D=Depl  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to doc atrix, CS=Cove	tland hydrology  cument the indi  cred/Coated Sand of the color (1)  Color (1	evious inspec  cator or conf Grains; Location  Moist)  Moist)  and present):  edox Matrix Mucky Mineral Eleyed Matrix I Matrix I Matrix	ved.  firm the absence of in: PL=Pore Lining, M=Mati  Mottles  % Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressioned Vertic	: Soils¹ LRR F, G, H)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	No primary  iption (Description) (Descriptio	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 4/1  Indicators (chairpedon stic on Sulfide Layers (LRR F) ot (LRR FGH) d Below Dark Surface ark Surface ucky Mineral Lucky Peat or Peat (LRK)	eeded to docatrix, CS=Cove  % 10 10 neck here if i	tland hydrology  cument the indi red/Coated Sand of the coated Sand of	evious inspec v were observ  cator or conf Grains; Location  Moist)  Moist)  edox Matrix Mucky Mineral Gleyed Matrix I Matrix ark Surface I Dark Surface epressions	wed.  Firm the absence of in: PL=Pore Lining, M=Mate  Mottles  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressic ed Vertic arent Material Shallow Dark S ain in Remarks)	E: Soils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 73)  Furface
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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)  2/1  4/1  Indicators (chairpedon Stice of Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface aucky Mineral lucky Peat or Peat (LR leyed Matrix	eeded to docatrix, CS=Cove    %   10   10   10   10   10   10   10	tland hydrology  cument the indi red/Coated Sand of the color (1)	evious inspector were observed or configrations; Location (Grains;	irm the absence of in: PL=Pore Lining, M=Mate  Mottles  Type  Type  In the absence of in the initial i	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressic ed Vertic arent Material Shallow Dark S ain in Remarks)	E: Soils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 73)  Furface
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-hh1				
<b>VEGETATION</b>		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.									
4.					Total Number of Dominant Species Across All Strata:(B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (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 x 2 = 10				
					FAC spp. 5 x 3 = 15				
Sapling/Shrub Stratum (Plot size: 15 ft. radius)					FACU spp. 40 X 4 = 160				
1.	Populus tremuloides	5	Υ	FAC	UPL spp. 60 x 5 = 300				
2.					··· <del></del>				
3.					Total 110 (A) 485 (B)				
4.									
5.					Prevalence Index = B/A = 4.409				
6.					1101000 11001 DIT				
7.									
8.	_				Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.									
10.	_ Total Cover =	5			Dominance Test is > 50%  Prevalence Index is ≤ 3.0 *				
	Total Cover –	5	_						
					Morphological Adaptations (Explain) *				
1.	Plot size: 5 ft. radius)  Bromus inermis	00	V	UPL	Problem Hydrophytic Vegetation (Explain) *				
2.		60	N	FACU	* Indicators of hydric soil and wetland hydrology must be				
	Fragaria virginiana	10			present, unless disturbed or problematic.				
3.	Solidago canadensis	10	N	FACU					
4.	Cirsium arvense	10	N	FACU	Definitions of Vegetation Strata:				
5.	Taraxacum officinale	5	N	FACU	<b>T</b>				
6	Symphyotrichum ericoides	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.	Symphyotrichum lanceolatum	5	N	FACW	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.				
	Total Cover =	105	_						
Woody Vine Str	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
	Total Cover =	0							
Remarks: The vegetation is dominated by non-hydrophytic species.									
Additional Remarks:									
Auditional Romano.									