WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date:	10/02/14
Applicant:		Enbridge							County:	Red Lake
Investigators		LEB/DGL			Subregion ((MLRA or LRR):	MLRA 56		State:	MN
Soil Unit:	I31A	LLD/D OL	l .		_ cabi ogion i	NWI Classification			Otato.	
					aal Daliafi M				0	454±4045 ==4
Landform:	Side slope				cal Relief: V			1	Sample Point:	u-151n42w15-cc1
Slope (%):	0 - 2%		Latitude: 47.		Longitude: -		Datum:			
Are climatic/	hydrologic co	nditions on the site	e typical for	this time of year	ar? (If no, explai	in in remarks)	⊡Yes	□ No	Section:	
Are Vegetati	on 🗆 Soi	☐ or Hydrology	□anifican	tly disturbed?		Are normal circur	nstances pr	esent?	Township:	
Are Vegetati		or Hydrology					□No		Range:	Dir:
			Laturally p	noblematic:		103			Range.	DII.
SUMMARY (
Hydrophytic	Vegetation P	resent?	No					Is Present?		
Wetland Hyd	Irology Prese	nt?	No		_		Is This Sa	mplina Poin	t Within A W	etland? No
Remarks:		sample point is lo		ne from the we	tland in a lar	rge cattle pasture		1 5		
rtcinarto.	The apiana	oumpie point is lot	cated apolo	pe nom me we	dana in a lai	igo dattio pastaro.				
HYDROLOG	Υ									
Wotland Hy	drology Ind	icatore (Chack all	that annly:	Minimum of on	e primary or	r two secondary requ	ired):			
		icators (Crieck all	i iliai appiy,	IVIII III III OI OI	e primary or	two secondary requ	ii eu).	0		
Primary		Matan			D44 C=# C=			Secondary:	DC 0f 0	ail Caralia
	A1 - Surface				B11 - Salt Cr				B6 - Surface S	
	A2 - High Wa				B13 - Aquatio					Vegetated Concave Surface
	A3 - Saturation					en Sulfide Odor			B10 - Drainage	
	B1 - Water M					son Water Table	D I			Rhizospheres on Living Roots (tille
	B2 - Sedimen					d Rhizospheres on Living	Koots (not till		C8 - Crayfish E	
	B3 - Drift Dep					e of Reduced Iron				Nisible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin Mu				D2 - Geomorp	
	B5 - Iron Dep			Ш	Other (Explai	in)			D5 - FAC-Neut	
		n Visible on Aerial Im	nagery						D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	ained Leaves								
Field Obser	vations:									
		V		. 0	(im.)					
	er Present?		Бер	oth:	(in.)		Wetland F	lydrology F	Present?	N
Water Table	Present?	Yes \square	Dep	oth:	(in.)			.,		. <u></u>
Saturation P	resent?	Yes \square		oth:	(in.)					
D 11 D	1 15 1 1					(;) ; () 1.1.1				
Describe Rec		stream gauge, moni			evious inspec					
Describe Rec		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 were obser	ved.	ndicators)			
Remarks: SOILS Profile Descr	No primary	or secondary indic	cators of wet	tland hydrology	evious inspect were obser	rved.				
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Remarks: SOILS Profile Descr	No primary	or secondary indicates be to the depth ne	cators of wet	tland hydrology	evious inspect were obser	rved. firm the absence of in PL=Pore Lining, M=Mat				
Remarks: SOILS Profile Descr	No primary	or secondary indices be to the depth ne etion, RM=Reduced Matrix	eeded to doo atrix, CS=Cove	cument the indi	evious inspective were observator or congrains; Location	firm the absence of in: PL=Pore Lining, M=Mat				
Remarks: SOILS Profile Descr	No primary	or secondary indicates be to the depth ne	cators of wet	tland hydrology cument the indi	evious inspective were observator or congrains; Location	rved. firm the absence of in PL=Pore Lining, M=Mat		Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doc atrix, CS=Cove	cument the indiered/Coated Sand	evious inspective were observator or congrains; Location	firm the absence of in PL=Pore Lining, M=Mat	rix)			Remarks
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doc atrix, CS=Cove	cument the indiered/Coated Sand	evious inspective were observator or congrains; Location	firm the absence of in PL=Pore Lining, M=Mat	rix)			Remarks
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/2	eeded to docatrix, CS=Cove	tland hydrology cument the indi cred/Coated Sand	evious inspect were observed at the control of the	firm the absence of in: PL=Pore Lining, M=Mat Mottles "Type"	rix)	SIL		Remarks
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Description, D=Depl Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/2	eeded to doc atrix, CS=Cove	cument the indicated Sand (1) 6 Color (1) 100 indicators are r	evious inspect vere observered of cator or con Grains; Location Moist) The control of the cator of the cator or con Moist) The control of the cator of the cat	firm the absence of in: PL=Pore Lining, M=Mat Mottles "Type"	Location	SIL SCL	or Problematic	
Remarks: SOILS Profile Descr (Type: C=Conce) Depth (In.) 0-16 16-18 NRCS Hydi	No primary iption (Description, D=Depl Hue_10YR Hue_10YR A1- Histosol	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/2 Indicators (ch	eeded to doc atrix, CS=Cove	cument the indicators are r	edox	firm the absence of in: PL=Pore Lining, M=Mat Mottles "Type"	Location	SIL SCL Indicators f A9 - 1 cm M	uck (LRR I, J)	: Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-16 16-18 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 4/2 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	edox Matrix	firm the absence of in: PL=Pore Lining, M=Mat Mottles "Type"	Location	SIL SCL Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (: Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce	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 4/2 Indicators (chairs)	eeded to docatrix, CS=Cove	cument the indicators are r	cator or con Grains; Location Moist) Moist) mot present): edox Matrix Mucky Mineral	firm the absence of in: PL=Pore Lining, M=Mat Mottles "Type"	Location	SIL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox (ırface (LRR G)	: <u>Soils¹</u> LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce	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 4/2 Indicators (ch	eeded to docatrix, CS=Cove	tland hydrology cument the indi fred/Coated Sand of the color (1) Color (1	evious inspect vere obser cator or con Grains; Location Moist) mot present): edox Matrix Mucky Mineral Gleyed Matrix	firm the absence of in: PL=Pore Lining, M=Mat Mottles "Type"	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P	uck (LRR I, J) Prairie Redox (urface (LRR G) lains Depressio	: Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descritation, D=Depl Hue_10YR Hue_10YR dic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eeded to doc atrix, CS=Cove	cument the indicators are r S5 - Sandy R S6 - Stripped N F1 - Loamy C F3 - Depletec	evious inspect vere observered of vere observered observe	firm the absence of in: PL=Pore Lining, M=Mat Mottles "Type"	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc	uck (LRR I, J) Prairie Redox (urface (LRR G) lains Depression ed Vertic	: <u>Soils¹</u> LRR F, G, H)
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary Iption (Description (Description) Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifice A6 - 1 cm Mu A11 - Deplete	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/2 Indicators (chairpedon stice of Sulfide Layers (LRR F) of Layers (LRR FGH) d Below Dark Surface	eeded to docatrix, CS=Cove	cument the indicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec	cator or con Grains; Location Moist) Moist) edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface	firm the absence of in: PL=Pore Lining, M=Mat Mottles % Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Red p TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (urface (LRR G) lains Depression ed Vertic arent Material Shallow Dark S	Soils LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

VECETATION									
	(Cooring identified in all management	non makin	anasies \						
VEGETATION Tree Stratum ((Species identified in all uppercase are Plot size: 30 ft. radius)	non-hative	species.)						
TICC Ottatuill (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.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. <u>15</u> x 1 = <u>15</u>				
	Total Cover = _	0	_		FACW spp. 15 x 2 = 30				
			FAC spp. 0 x 3 = 0						
	Stratum (Plot size: 15 ft. radius)				FACU spp. 70 x 4 = 280				
1.					UPL spp 0				
2.									
3.	_				Total 100 (A) 325 (B)				
4.	_				Durch and July 1974				
5. 6					Prevalence Index = B/A = 3.250				
6.	_								
7. 8.					Hydrophytic Vegetation Indicators:				
9.									
10.					Rapid Test for Hydrophytic Vegetation Dominance Test is > 50%				
10.	_ Total Cover =	0			Prevalence Index is ≤ 3.0 *				
	Total Covel	U	_						
Herb Stratum (Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *				
1.	Phleum pratense	30	Υ	FACU	1 Tobletti i Tydropriytic Vegetatioti (Expiairi)				
2.	Trifolium pratense	30	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Agrostis gigantea	15	N .	FACW	present, unless disturbed or problematic.				
4.	Carex pellita	10	N	OBL	Definitions of Vegetation Strata:				
5.	Taraxacum officinale	10	N	FACU					
6	Carex granularis	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.				_	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (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 = _	100	_						
	ratum (Plot size: 30 ft. radius)								
1.				_					
2.									
3.					Hydrophytic Vegetation Present? N				
5.				_					
4.	T 1 1 2			_					
Domarka:	Total Cover =	dio specie	o and ha-	hoon ===	704				
Remarks:	The vegetation is dominated by non-hydrophy	yuc specie	s and nas	been gra	zeu.				
Additional Remarks:									