WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/30/14			
Applicant: Enbridge									County:	Red Lake				
Investigators: LEB/DGL				Subregion (MLRA or LRR): MLRA 56					State:	MN				
	Soil Unit: <u>159A</u> NWI Classification:													
Landform:	Side slope				cal Relief: \			<u> </u>		Sample Point:	u-151n42w15-g1			
	0 - 2%		Latitude: 47.9			-96.027864		Datum:						
		nditions on the site			ar? (If no, expl				□ No	Section:				
Are Vegetation Q Soil Q or Hydrology Q gnificantly disturbed? Are normal circumsta							•	esent?	Township:					
Are Vegetation		🖵 or Hydrology	Liturally pr	oblematic?			⊡ Yes	□No		Range:	Dir:			
SUMMARY C														
Hydrophytic V	•	0				Hydric Soils Present? No								
Wetland Hyd			No		41	al transformer			mpling Poin	nt Within A W	etland? No			
Remarks:	i në upland	sample point is loc	cated slightly	upsiope from	i the wetian	id in a large	e cattle past	ure.						
	-													
HYDROLOG	Y													
Wetland Hy	drology Ind	icators (Check all	that apply; N	linimum of on	e primary o	or two secor	ndary requi	red):						
Primary:				_					Secondary:					
	A1 - Surface			B11 - Salt Crust B13 - Aquatic Faur						B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns				
	A2 - High Wa A3 - Saturatio					ic ⊢auna jen Sulfide Oo								
	B1 - Water M				C2 - Dry Sea	ason Water T	Table				Rhizospheres on Living Root	s (tilled)		
	B2 - Sedimen				C3 - Oxidize	ed Rhizosphe	eres on Living	Roots (not till	e 🗖	C8 - Crayfish E	Burrows	. ,		
	B3 - Drift Dep					ice of Reduce	ed Iron				Visible on Aerial Imagery			
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin Mu Other (Expla					D2 - Geomorp D5 - FAC-Neu				
		on Visible on Aerial Ima	agery		Other (Expla	airi)					ived Hummocks (LRR F)			
	B9 - Water-St		agery							01-1103(-1102				
_														
Field Observ	vations:													
Surface Wate	er Present?	Yes 🛛	Dept	h:	(in.)									
		Yes						Wetland H	lydrology	Present?	N			
		Yes 🔲			(in.)									
Saturation Present? Yes D Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Image: Control of the stream gauge in th														
Describe Desc	arded Data (a	traam aauga manii	مالمسم سمال	rial abataa ar		ontiona) if a	veilebler							
			-			-	vailable:							
Describe Reco Remarks:		stream gauge, monit or secondary indic	-			-	vailable:					_		
Remarks:			-			-	vailable:							
Remarks: SOILS	No primary	or secondary indic	ators of wetl	and hydrology	were obse	erved.		dicators)						
Remarks: SOILS Profile Descri	No primary ption (Descri		eded to docu	and hydrology	were obse	erved.	bsence of in							
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Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary indic be to the depth ne etion, RM=Reduced Ma	eded to docu	and hydrology	v were obse cator or cor Grains; Locatio	erved. nfirm the ab on: PL=Pore L	bsence of in		Texture		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix	eded to docu	and hydrology	v were obse cator or cor Grains; Locatio	nfirm the ab on: PL=Pore L Mottles	bsence of in Lining, M=Matr	ix)	Texture		Remarks			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No primary ption (Descrintration, D=Deple Hue_10YR	or secondary indic be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to docu atrix, CS=Cover % 100	and hydrology	v were obse cator or cor Grains; Locatio	nfirm the ab on: PL=Pore L Mottles	bsence of in Lining, M=Matr	ix)	SICL		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No primary ption (Descrintration, D=Deple Hue_10YR	or secondary indic be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to docu atrix, CS=Cover % 100	and hydrology	v were obse cator or cor Grains; Locatio	nfirm the ab on: PL=Pore L Mottles	bsence of in Lining, M=Matr	ix)	SICL		Remarks			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18	No primary ption (Descri tration, D=Depl Hue_10YR Hue_2.5Y	or secondary indic be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eded to docu atrix, CS=Cover % 100 100	and hydrology iment the indi ed/Coated Sand Color (1)	Moist)	nfirm the ab on: PL=Pore L Mottles	bsence of in Lining, M=Matr	ix)	SICL		Remarks			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No primary ption (Descrittration, D=Depi Hue_10YR Hue_2.5Y	or secondary indic be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eded to docu eded to docu trix, CS=Cover % 100 100 eck here if ir	and hydrology	Moist)	nfirm the ab on: PL=Pore L Mottles	bsence of in Lining, M=Matr	Location	SICL C					
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Vector Vector Information (Processing Processing Procesproces Processing Processing Processing Processing Processing Pr	L3R	ject/Site:	L3R				Sample Point: u-151n42w15-g1		
Tree Struturn (Pot size: 30.4, radius) Derivation Description Derivation Derivation <thderivation< th=""> Derivation Derivat</thderivation<>									
Species Manne Stoor Bernaming to state 1. Devices manneespa 0 Y FACU 2.	nt size: 30			e non-native	species.)				
10 Y FACU 2				% Cover	Dominant	Ind.Status	Dominance Test Worksheet		
3.									
4		2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)		
5.		3.							
6 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B) 7.							Total Number of Dominant Species Across All Strata: 3 (B)		
Total Prevalence Index Worksheet 9.									
8. Prevalence Index Worksheet 9. Total % Cover of: Multicity by: 10. Total % Cover of: Multicity by: Septing/Strub Stratum (Plot size: 15 ft, radius) FACU spp. X 1 = 40 2. FACU spp. X 1 = 40 50 70 3. FACU spp. X 1 = 40 70 70 70 3. FACU spp. X 4 = 20 70 80 70 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)</td>							Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)		
9. Total Cover =									
10. Total Cover =									
Total Cover 10 FACW spp. 20 X 2 = 40 Sapting/Shrub Stratum (Plot size: 15 ft radius) FAC spp. 0 X 3 = 0 3.									
Saping/Shrub Stratum (Plot size: 15 ft. radius) FAC uspp. 0 x 3 = 0 2.		10.							
Sapling/Shrub Stratum (Plot size: 15 ft. radius) FACU spp. a a 1			Total Cover =	10	_		FACW spp. 20 x $2 = 40$		
1.									
2.	atum (Plot :		ratum (Plot size: 15 ft. radius)						
3.							$UPL spp. \qquad U \qquad X = 0$		
4. Prevalence Index = B/A =							Total 110 (A) 270 (D)		
5.									
6.							Prevalence Index = R/A = -2.264		
7.							Prevalence index = D/A = <u>3.304</u>		
8.									
9.							Hydrophytic Vegetation Indicators:		
10. Total Cover =									
Total Cover =									
Herb Stratum (Plot size: 5 ft. radius)		10.	Total Cover =	0					
Herb Stratum (Plot size: 5 ft. radius) 1. Problem Aydrophytic Vegetation (Explain) * 2. Agrostis gigantea 20 Y FACU 3. Caree granularis 10 N OBL 4. Tarasecum dificinale 10 N FACU 5. Tritolium hybridum 10 N FACU 6. Symphytichum encodes 10 N FACU 7. Fragena virginiana 5 N FACU 9.					_				
1. Phleum pratense 30 Y FACU 2. Agrosis gigantea 20 Y FACU 3. Catex granularis 10 N OBL 4. Taraxecum officinate 10 N FACU 5. Trifolium hybridum 10 N FACU 6. Symphyotrichum ericoides 10 N FACU 7. Fragaria virginiana 5 N FACU 9.	ot size: 5 ft	Stratum (Plo	otsize: 5.ft radius)						
2. Agrostis gigantea 20 Y FACW * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 3. Carex granularis 10 N OBL persent, unless disturbed or problematic. 4. Taraxacum officinale 10 N FACU Definitions of Vegetation Strata: 5. Trifolum hydrology 10 N FACU Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 8. Achillea millefolum 5 N FACU 9. Sapling/Shrub - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 10. 11. 12. 13. 14. 15. 2. <td></td> <td></td> <td></td> <td>30</td> <td>Y</td> <td>FACU</td> <td></td>				30	Y	FACU			
5. Otor guadation 10 N FACU 4. Taraxecum officinale 10 N FACU 5. Tritolium hybridum 10 N FACU 6 Symphyotrichum ericoides 10 N FACU 7. Fragaria virginiana 5 N FACU 8. Achilea millefolium 5 N FACU 9.	Agrostis giga	2.	Agrostis gigantea		Y		* Indicators of hydric soil and wetland hydrology must be		
5. Tritolium hybridum 10 N FACU 6 Symphyotrichum ericoides 10 N FACU 7. Fragaria virginiana 5 N FACU 8. Achillea millefolium 5 N FACU 9.	Carex granula	3.	Carex granularis	10	Ν	OBL	present, unless disturbed or problematic.		
6 Symphyotrichum ericoides 10 N FACU 7. Fragaria virginiana 5 N FACU 8. Achillea millefolium 5 N FACU 9.	Taraxacum of	4.	Taraxacum officinale	10	Ν	FACU	Definitions of Vegetation Strata:		
7. Pragafia virginiana 5 N FACU 8. Achillea millefolium 5 N FACU 9.	Trifolium hybi	5.	Trifolium hybridum	10	Ν	FACU			
7. Pragafia virginiana 5 N FACU 8. Achillea millefolium 5 N FACU 9.	Symphyotrich	6	Symphyotrichum ericoides	10	Ν	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast		
9.	Fragaria virgii	7.	Fragaria virginiana	5	N	FACU	height (DBH), regardless of height.		
10.	Achillea mille	8.	Achillea millefolium	5	N	FACU			
11.		-					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.		
12.									
13.									
14.							Herb - All herbaceous (non-woody) plants, regardless of size.		
15. Woody Vines - All woody vines, regardless of height. Total Cover =0 Woody Vines - All woody vines, regardless of height. Woody Vine Stratum (Plot size: 30 ft. radius)									
Total Cover =100 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 5. 4. Total Cover =							Manda Minen All woody video recordings of height		
Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 5. 4. Total Cover = 0		15.	T 1 1 0	400			woody vines - An woody vines, regardless of neight.		
1.			I otal Cover =	100	_				
1.	um (Plat air	dy Vinc Str-t	tum (Plot size: 20 ft radius)						
2.	uiii (1910t Sl2		UTT (FIOL SIZE. 30 IL. TAUIUS)						
3. Hydrophytic Vegetation Present? N 5.									
5. 4. Total Cover = 0							Hydronhytic Vegetation Present? N		
4. Total Cover = 0									
Total Cover = 0		_							
		L	Total Cover =	0		-			
Additional Remarks:									