WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/09/14
Applicant:		Enbridge								County:	Red Lake
Investigators	s:	BCS/KRG			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I59A		•			•	Classification			- 10.101	
Landform:	Talf				Local Daliaf		Classification			Camala Daiat	454n40w02 h2
					Local Relief					Sample Point:	u-151n42w23-b3
Slope (%):	0 - 2%		Latitude: 47.			: -95.992		Datum:			
Are climatic/	hydrologic co	nditions on the sit	e typical for	this time of	/ear? (If no, e)	cplain in rema	arks)	⊡Yes	□ No	Section:	
Are Vegetati	on 🛭 Soi	☐ or Hydrology	□anifican	itly disturbed	?	Are	normal circun	nstances pre	esent?	Township:	
Are Vegetati		☐ or Hydrology			-		Yes	□No		Range:	Dir:
			Laturally p	orobicinatic:			1 100	,,		rtange.	DII.
SUMMARY (
Hydrophytic '	Vegetation P	resent?	No					Hydric Soil	Is Present?	' No	
Wetland Hyd	drology Prese	nt?	No					Is This Sar	mplina Poir	nt Within A We	etland? No
Remarks:	The upland	sample point is lo	cated within	a fire-deper	dent forest	communi	ty dominated b				rstory vegetation includes gray
		nd Pennsylvania s	edge.								
HYDROLOG	Υ										
Wetland Hy	drology lad	icators (Check all	I that apply:	Minimum of	ono primar	or two o	acandan, raqui	rod).			
		icators (Check all	i that apply;	Minimum Oi	one primary	or two se	econdary requi	rea):			
Primary									Secondary:		" 0 1
A1 - Surface Water					☐ B11 - Salt					B6 - Surface S	
	A2 - High Wa				☐ B13 - Aqu						Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water M				C2 - Dry S			D 1 - 1 1 - 1			Rhizospheres on Living Roots (tilled)
	B2 - Sedimer						pheres on Living	Roots (not till		C8 - Crayfish E	
	B3 - Drift Dep				C4 - Pres						No Visible on Aerial Imagery
	B4 - Algal Ma					Muck Surfa	ace			D2 - Geomorp	
	B5 - Iron Dep				☐ Other (Ex	piain)				D5 - FAC-Neut	
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	ived Hummocks (LRR F)
	B9 - Water-S	ained Leaves									
Field Obser	vations:										
Surface Wat	or Present?	Yes	Der	oth:	(in.)						
		_			` ′			Wetland H	lydrology	Present?	N
Water Table		Yes 🔲		oth:							<u> </u>
Saturation P	resent?	Yes \square	Dep	oth:	(in.)						
Dogoribo Boo	1 15 1 /										
	orded Data (9	stream gauge mon	itoring well a	erial photos	previous ins	nections)	if available:				
		stream gauge, mon					if available:				
Remarks:		stream gauge, mon or secondary indic					if available:				
Remarks:							if available:				
							if available:				
Remarks:	No primary		cators of we	tland hydrolo	gy were obs	served.		ndicators.)			
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of we	tland hydrolo	ogy were obs	served.	e absence of ir				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-13 13-18 NRCS Hydr	No primary Iption (Description (Description) Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep. A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G Type:	or secondary indicators (chapter of the depth neetion, RM=Reduced Matrix Color (Moist) 2/2 7/1 3/2 Indicators (chapter of the depth of the dept	eeded to doo latrix, CS=Cove 9 10 10 9 neck here if	tland hydrold tland hydrold cument the in red/Coated Sal 6 Colo 100 100 100 100 100 100 100 100 100 1	r (Moist)	onfirm the state of the state o	e absence of ir ore Lining, M=Mate es Type C	Location M R H)	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	E horizon B horizon B horizon For Problematic luck (LRR I, J) Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material Parent Material Phallow Dark S pain in Remarks) Indirectly beginning to the problematic.	E: Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Furface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: u-151n42w23-b3				
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)						
	(Plot size: 30 ft. radius)								
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	35	Y	FAC					
2.	Quercus macrocarpa	25	Ү	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)				
		25	- '	1 700	Number of Bonnifant openies that are OBE, 1 AOW, of 1 AO(A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 7 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 28.6% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					1				
					1 ————————————————————————————————————				
10.					OBL spp. 0 x 1 = 0				
	Total Cover =	60	_		FACW spp. 0 x 2 = 0				
					FAC spp. 49 x 3 = 147				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 55 x 4 = 220				
1.	Cornus racemosa	10	Υ	FAC	UPL spp. 50 x 5 = 250				
2.	-	5	Y	NI	Δ1 2 3pp				
	Viburnum rafinesqueanum				Table 454 (A) 247 (B)				
3.	Quercus macrocarpa	5	Υ	FACU	Total 154 (A) 617 (B)				
4.									
5.					Prevalence Index = B/A = 4.006				
6.									
7.									
					Hudranhutia Vagatatian Indiaetara				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	20			Prevalence Index is ≤ 3.0 *				
	•				Morphological Adaptations (Explain) *				
Harh Stratum	(Plot size: 5 ft. radius)	-			Problem Hydrophytic Vegetation (Explain) *				
1.	Carex pensylvanica	45	Υ	NI	1 Tobletii Tiydrophiytic Vegetation (Explain)				
					* Indicators of hydric call and watland hydrology must be				
2.	Galium boreale	15	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
3.	Geum aleppicum	5	N	FACU					
4.	Solidago canadensis	5	N	FACU	Definitions of Vegetation Strata:				
5.	Veronicastrum virginicum	2	N	FAC					
6	Zizia aurea	2	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
				_					
8.					O II (OI I Washington to the Circ DDII assessible of height				
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.					Marcal Marca Allunadurinas esperallere effected				
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	74							
	•								
Woody Vine St	tratum (Plot size: 30 ft. radius)	-							
1.	(lot oillot of its radiato)								
				_					
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.		-							
	Total Cover =	0							
Remarks:			in the car	nony with	gray dogwood, downy arrowwood, and bur oak saplings in the shrub stratum.				
rtcinarts.	Herbaceous vegetation is dominated by Pen	novivania	codae and	northorn	bodetrow				
	rierbaceous vegetation is dominated by Pen	noyivania	seuge and	normen	DEUSH AW.				
Additional Remarks:									