WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/15/14	
Applicant:		Enbridge								County:	Red Lake		
Investigators	:	KRG/BCS	Subregion (MLRA				or LRR): MLRA 56			State:	MN		
Soil Unit:	I59A												
Landform:	Talf										Sample Point	u-151n42w24-p1	
Slope (%):	0 - 2%		Latitude: 4	47.88 <i>°</i>	17558	Longitude:	-95.974	8945	Datum:		·		
		nditions on the site							⊡Yes	□No	Section:		
Are Vegetation		☐ or Hydrology			disturbed?			normal circum	nstances pro	esent?	Township:		
Are Vegetation		□ or Hydrology			olematic?			Yes	□No ˙		Range:	Dir:	
SUMMARY C				, ,							3		
Hydrophytic \			N	No					Hydric Soi	Is Present?	No		
Wetland Hyd	•		_	No							t Within A W	etland? No	
Remarks:					denendent fo	rest com	munity do	ominated by gu				iceberry, dogwoods, a	nd
		a sedge below.			2000			oatou 2) qo	anning dopo		an, mar 50	.cozo), dog.roodo, d	
HYDROLOGY		J											
									1)				
		cators (Check all	i that appi	ıy; Mır	nimum of on	e primary	or two se	econdary requi	rea):	0			
Primary:		Nator				B11 - Salt	Cruet			Secondary:	B6 - Surface S	Soil Cracks	
A1 - Surface WaterA2 - High Water Table						B13 - Aqua						Vegetated Concave Surfa	ace
	A3 - Saturatio					C1 - Hydro		e Odor			B10 - Drainage		
	B1 - Water Ma	arks				C2 - Dry So	eason Wa	ter Table				Rhizospheres on Living R	oots (tilled)
	B2 - Sedimen							pheres on Living	Roots (not till		C8 - Crayfish I		
	B3 - Drift Dep					C4 - Prese						n Visible on Aerial Imager	у
	B4 - Algal Mat B5 - Iron Depo					C7 - Thin N Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu		
		ก Visible on Aerial Im	nagery			Other (Exp	nann)					aved Hummocks (LRR F)	
_	B9 - Water-St		lagory							_	<i>D7</i> 1100011101	avea Hammooko (Erkivi)	
Field Observ	/ations:												
Surface Water	er Present?	Yes 🔲	г	Depth:		(in.)					_		
Water Table		Yes 🗆				(in.)			Wetland F	lydrology F	Present?	N	
Saturation Pr		Yes		Depth:		(in.)						_	
						(,							
			the atom account	11				:£:1_ _ - -					
		tream gauge, moni						if available:					
Remarks:		tream gauge, moni or secondary indic						if available:					
Remarks:								if available:					
Remarks:	No primary	or secondary indic	cators of v	wetlan	nd hydrology	were obs	erved.		adicators \				
Remarks: SOILS Profile Descri	No primary	or secondary indicates be to the depth ne	cators of v	wetlan	nd hydrology	were obs	erved.	e absence of in					
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of v	wetlan	nd hydrology	were obs	erved.	e absence of in					
Remarks: SOILS Profile Descri	No primary	or secondary indicates be to the depth ne	cators of v	wetlan	nd hydrology	were obs	erved.	e absence of in ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indices be to the depth neletion, RM=Reduced Matrix	cators of v	wetlan	nent the indid	were obs	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	cators of v	docum overed %	nd hydrology	were obs	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	No primary ption (Descriptration, D=Depletration, D=Depletration)	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to clatrix, CS=Co	documovered	nent the indid	were obs	onfirm the	e absence of in ore Lining, M=Matr	ix)	L		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8	Populary ption (Descriptration, D=Depked) Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 3/1 6/1	eeded to clatrix, CS=Co	docum overed. % 100 100	nent the india //Coated Sand (were obs	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	L FSL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18	ption (Descriptration, D=Depkers) Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) 3/1 6/1 3/2	eeded to clatrix, CS=Co	wetlan docum overed % 100 100 78	nent the indid	were obs	onfirm the	e absence of in ore Lining, M=Matr	ix)	L FSL SC		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8	Populary ption (Descriptration, D=Depked) Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 3/1 6/1	eeded to clatrix, CS=Co	docum overed. % 100 100	nent the india //Coated Sand (were obs	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	L FSL		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18	ption (Descritration, D=Depleter Hue 10YR Hue 2.5Y Hue 2.5Y Hue 2.5Y	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) 3/1 6/1 3/2 2.5/1	cators of v	% 100 100 78 20	nent the india //Coated Sand (were obs	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	FSL SC SC			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydri	ption (Descritration, D=Depleter 10 YR Hue 2.5Y Hue 2.5Y Hue 2.5Y ic Soil Field	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) 3/1 6/1 3/2 2.5/1	cators of v	wetlandocum overed	nent the indicated Sand Cooler (N	cator or co crains; Local Moist) 5/6 ot presen	onfirm the	e absence of in ore Lining, M=Matr es Type C	Location M	L FSL SC SC	or Problemati		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydri	ption (Descritration, D=Deplete Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Let a Coil Field A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Mis Matrix Color (Moist) 3/1 6/1 3/2 2.5/1 Indicators (chicked)	cators of v	wetlandocum overed	nent the indicated Sand Cooler (No. 1997) Hue_10YR icators are no. S5 - Sandy Re. S6 - Stripped	were obs cator or co grains; Local Moist) 5/6 ot presen edox Matrix	monfirm the tion: PL=Po Mottle % 2 tt):	e absence of in ore Lining, M=Matr es Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox	c Soils¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydri	Populary Popula	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 3/1 6/1 3/2 2.5/1 Indicators (chappedon etic)	cators of v	% 100 100 78 20	d hydrology nent the india/Coated Sand C Color (N Hue_10YR icators are n S5 - Sandy Rr S6 - Stripped F1 - Loamy M	were obs cator or cc Grains; Loca Moist) 5/6 ot presen edox Matrix ucky Minera	ponfirm the tion: PL=Po	e absence of in ore Lining, M=Matr es Type C	Location M	L FSL SC SC SC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydri	Ption (Descritration, D=Depleteration, D	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 3/1 6/1 3/2 2.5/1 Indicators (chairpedon titic in Sulfide	cators of v	wetlandocummovered. % 100 100 78 20	nent the indicated Sand Cooler (No. 1997) Hue_10YR icators are no. S5 - Sandy Re. S6 - Stripped	were obs cator or co grains; Loca Moist) 5/6 oot presen edox Matrix ucky Miner: leyed Matrix	ponfirm the tion: PL=Po	e absence of in ore Lining, M=Matr es Type C	Location M	L FSL SC SC SC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox urface (LRR G) Pains Depressi	c Soils¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydri	Ption (Descritration, D=Depleteration, D	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 3/1 6/1 3/2 2.5/1 Indicators (chairpedon titic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to clatrix, CS=Cd	% 100 100 78 20	color (Number of the indicators are number of	were obs cator or co Grains; Loca Moist) 5/6 ot presen edox Matrix ucky Miner: leyed Matrix Matrix Matrix Alark Surface Dark Surface	months and the second s	e absence of in ore Lining, M=Matr es Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High P F18 - Red D TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ed Vertic arent Material	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydri	Ption (Descritration, D=Depli Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Ic Soil Field A1- Histosol A2- Histic Ep A3- Black His A4- Hydroger A5- Stratified A9-1 cm Mu A11- Deplete A12- Thick D S1- Sandy M	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 3/1 6/1 3/2 2.5/1 Indicators (ch ipedon titic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eeded to clatrix, CS=Cd	% 100 100 78 20	color (Number of the indicators are number of	were obs cator or co Grains; Loca Moist) 5/6 ot presen edox Matrix ucky Miner: leyed Matrix Matrix Matrix Alark Surface Dark Surface	months and the second s	e absence of in ore Lining, M=Matr es Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High P F18 - Red D TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydri	Popinary Popinary Popinary Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_3.5Y Hue_3.	be to the depth ne etion, RM=Reduced Mineral Matrix Color (Moist) 3/1 6/1 3/2 2.5/1 Indicators (chair a surface ark Surface acky Mineral lucky Peat or Peat (LR) be to the first or Peat (LR) Peat or Peat (LR)	eeded to clatrix, CS=Co	% 100 100 78 20	color (Number of the indicators are number of	were obs cator or co Grains; Loca Moist) 5/6 ot presen edox Matrix ucky Miner: leyed Matrix Matrix Matrix Alark Surface Dark Surface	months and the second s	e absence of in ore Lining, M=Matr es Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High P F18 - Red p TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S in in Remarks)	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	st be present,
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-8 8-18 8-18 NRCS Hydri	No primary ption (Description	be to the depth ne etion, RM=Reduced Mineral Matrix Color (Moist) 3/1 6/1 3/2 2.5/1 Indicators (chair a surface ark Surface acky Mineral lucky Peat or Peat (LR) be to the first or Peat (LR) Peat or Peat (LR)	eeded to clatrix, CS=Co	% 100 100 78 20	color (National Strings of the Color (National Sand Color (National Sand Color (National Sand Sand Sand Sand Sand Sand Sand Sand	were obs cator or co Grains; Loca Moist) 5/6 ot presen edox Matrix ucky Miner: leyed Matrix Matrix Matrix Alark Surface Dark Surface	months and the second s	e absence of inore Lining, M=Matrones Type C RA 72, 73 of LRF	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High P F16 - High P TF12 - Very Other (Explanting of h unless disturbe	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S in in Remarks) ydrophytic vegeta	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	at be present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w24-p1		
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	40	Υ	FAC			
2.	Quercus macrocarpa	40	Υ	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)		
3.					· · · · · · · · · · · · · · · · · · ·		
4.					Total Number of Dominant Species Across All Strata: 6 (B)		
5.					(b)		
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)		
7.					reicent of Dominiant Species That Ale Obc, FACW, of FAC. 33.376 (A/D)		
					Describer on Index Manhaban		
8.					Prevalence Index Worksheet		
9.					Total % Cover of: Multiply by:		
10.	<u> </u>				OBL spp. 0 x 1 = 0		
	Total Cover =	80			FACW spp. 7 x 2 = 14		
					FAC spp. 52 x 3 = 156		
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 94 x 4 = 376		
1.	Amelanchier alnifolia	20	Υ	FACU	UPL spp. 60 x 5 = 300		
2.	Quercus macrocarpa	10	Υ	FACU			
3.	Cornus racemosa	10	Υ	FAC	Total 213 (A) 846 (B)		
4.	Cornus alba	5	N	FACW			
5.	Rosa blanda	2	N	FACU	Prevalence Index = B/A = 3.972		
6.			1.1	. 7.00	Trevalence index = DIT = VIVI =		
7.							
					Hodoo boda Wanafallan badkatan		
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.					Dominance Test is > 50%		
	Total Cover =	47	_		Prevalence Index is ≤ 3.0 *		
					Morphological Adaptations (Explain) *		
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *		
1.	Carex pensylvanica	60	Υ	NI			
2.	Pteridium aquilinum	15	N	FACU	* Indicators of hydric soil and wetland hydrology must be		
3.	Solidago canadensis	5	N	FACU	present, unless disturbed or problematic.		
4.	Galium boreale	2	N	FACU	Definitions of Vegetation Strata:		
5.	Zizia aurea	2	N	FAC			
6	Thalictrum dioicum	2	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast		
7.	Transcram distant		11	TAOW	height (DBH), regardless of height.		
8.				_	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.		
9.				_	Sapling/Snrub - Woody plants less than 3 in. DBH, Tegaluless 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 =	86					
			_				
Woody Vine St	ratum (Plot size: 30 ft. radius)						
1.	(1 lot oizo. oo it. iddida)						
2.							
				_	Under the Managerian Burner (C. N.		
3.					Hydrophytic Vegetation Present? N		
5.							
4.							
	Total Cover =	0					
Remarks:				nopy with	a moderately dense shrub layer dominated by serviceberry and dogwoods.		
	Herbaceous vegetation is dominated by Pen	nsylvania s	sedge.				
Additional B	Remarks:						
Additional Remarks:							