WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/02/14	
Applicant:		Enbridge								County:	Red Lake	
Investigators	nvestigators: NTT/BEH			Subregion (MLRA or LRR)				MLRA 56		State:	MN	
Soil Unit:										Ī		
Landform:	Depression Local Relief: CC									Sample Point:	w-151n42w9-g2	
Slope (%):	3 - 7%		Latitude: 47.9		Longitude:		602	Datum:		1		
		nditions on the site						⊡Yes	□No	Section:		
Are Vegetation		or Hydrology		y disturbed?	ui . (ii iio, cx)		normal circun			4		
						AIC	✓ Yes	□No	esent:	Township:	D :	
Are Vegetation		☐ or Hydrology	Lilurally pr	obiematic?			<u>□</u> res	□INO		Range:	Dir:	
SUMMARY C												
Hydrophytic \			Yes		_				Is Present?			
Wetland Hyd			Yes					Is This Sa	mpling Poir	nt Within A W	etland? Yes	
Remarks:	The wetland	d is a scrub-shrub	area located	within a large	wetland c	omplex ir	n the Plummer	station. Do	ominant ve	getation includ	des reed canary grass, me	adow
Remarks: The wetland is a scrub-shrub area located within a large wetland complex in the Plummer station. Dominant vegetation includes reed canary grass, meadow willow and lake sedge.												
HYDROLOG												
		icators (Check all	I that apply; M	linimum of or	ne primary	or two se	econdary requi	red):				
Primary:				_					Secondary			
A1 - Surface Water					B11 - Salt					B6 - Surface S		
	A2 - High Wa A3 - Saturation				B13 - Aqua C1 - Hydro		o Odor			 □ B8 - Sparsely Vegetated Concave Surface □ B10 - Drainage Patterns □ C3 - Oxidized Rhizospheres on Living Roots (tilled) 		
l H	B1 - Water M				C2 - Dry S							
I	B2 - Sedimen						pheres on Living	Roots (not till		C8 - Crayfish Burrows		
I	B3 - Drift Dep				C4 - Prese			rtooto (not un			Visible on Aerial Imagery	
I 🗀	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp		
	B5 - Iron Dep				Other (Exp				✓	D5 - FAC-Neu	tral Test	
	B7 - Inundation	on Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves										
Field Observ	vations:											
Surface Water	er Present?	Yes 🔲	Denti	n:	(in.)							
Water Table		Yes 🗆	Depti	n:	(in.)			Wetland F	lydrology	Present?	Υ	
Saturation Pr		_										
Saturation Fi	resent?	Yes 🚨	Depti	1.	(in.)	1						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	stream gauge, moni	itoring well, ac	rial photos, pr	evious insp	ections),	if available:					
Remarks:								ed on lands	cape position	on and hydrop	hytic vegetation present.	
								ed on lands	cape position	on and hydrop	hytic vegetation present.	
								ed on lands	cape position	on and hydrop	hytic vegetation present.	
Remarks: SOILS	No primary	wetland hydrology	indicators ar	e present. W	etland hyd	rology is	assumed base		cape positio	on and hydrop	hytic vegetation present.	
Remarks: SOILS Profile Descri	No primary		indicators ar	e present. W	etland hyd	rology is	assumed base e absence of ir	ndicators.)	cape position	on and hydrop	hytic vegetation present.	
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Remarks: SOILS Profile Descri	No primary	wetland hydrology ibe to the depth ne	indicators ar	e present. W	etland hyd	onfirm the	assumed base e absence of irone Lining, M=Mate	ndicators.)	cape position	on and hydrop	hytic vegetation present.	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix	vindicators ar eeded to docu latrix, CS=Covere	ment the ind	etland hyd icator or co Grains; Loca	onfirm the tion: PL=Po	assumed base e absence of ir ore Lining, M=Matr	ndicators.)		on and hydrop		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	wetland hydrology ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	rindicators are eeded to doculatrix, CS=Covere	ment the inded/Coated Sand	etland hyd icator or co Grains; Loca	onfirm the	assumed base e absence of irone Lining, M=Mate	ndicators.)	Texture	on and hydrop	hytic vegetation present.	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-14 14-24 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	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/3 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) dd Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRI leyed Matrix	meck here if in	ment the ind d/Coated Sand Color (Hue_10YR Hue_10YR dicators are \$\$5 - Sandy F \$\$6 - Strippy F \$\$1 F5 - Depleter \$\$1 F6 - Redox E \$\$1 F6 - High P Depth	etland hyd icator or co Grains; Loca Moist) 6/8 6/8 6/8 not presen Redox I Matrix Muchy Minera Gleyed Matrix d Matrix Jar Surface d Dark Surface d Dark Surface d Depressions Depressions Depressions	mology is confirm the confirmation of the confirmation that confirmation that confirmation the confirmation that confirmation the confirmation that confirmation that confirmation that confirmation the confirmati	e absence of irrore Lining, M=Matrices Type C C C Hydric So	Location M M M II Present?	Indicators of unless disturbed	Gravel present Gravel present	Remarks Soils LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface ion and wetland hydrology must be p	present,

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-151n42w9-g2
VEGETATION		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: (A)
3.					
4.					Total Number of Dominant Species Across All Strata: (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 70 x 1 = 70
	Total Cover =	0			FACW spp. 75 x 2 = 150
	_		_		FAC spp. $0 x 3 = 0$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.	Salix petiolaris	30	Υ	OBL	UPL spp. 0 x 5 = 0
2.	Salix interior	25	Y	FACW	
3.	Salix discolor	20	Y	FACW	Total 145 (A) 220 (B)
4.					
5.					Prevalence Index = B/A = 1.517
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	75			X Prevalence Index is ≤ 3.0 *
			_		Morphological Adaptations (Explain) *
Herh Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	30	Υ	FACW	
2.	Carex lacustris	30	· Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Carex atherodes	10	N	OBL	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.				_	Definitions of Vogetation Carata.
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.				_	oupmigroniab, p. a , , , ,
11.				_	
12.				_	Herb - All herbaceous (non-woody) plants, regardless of size.
13.					11019
14.				_	
15.					Woody Vines - All woody vines, regardless of height.
15.	T-4-1 O	70			**Outy *IIIGS 11000) 1.1100, 10gardious of Holgin.
	Total Cover = _	70	_		
M	orthog (Blot et al. 200 ft and the				
	ratum (Plot size: 30 ft. radius)				
1.					
2.					Hardwork die Vertrie Britis V
3.					Hydrophytic Vegetation Present? Y
5.				_	
4.				_	
	Total Cover =	0			
Remarks:	The wetland vegetation is dominated by willow	ws, lake se	edge, and	reed cana	ary grass.
Additional R	lemarks:				