# WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: L3R		y/County: Clearwate		Sampl	ing Date: 2016-06-20		
Applicant/Owner: Enbridge		State: Minnesota Sampling Point: u-149n37w33-aa					
Investigator(s): DPT, ZCW		Section, Townshi	p, Range: S33, T149N	, R37W	<u> </u>		
Landform (hillslope, terrace, etc.):	Rise		Local Relief (concave		Slope (%): 3-7%		
Subregion (LRR or MLRA):		Latitude: 47		Longitude: -95.38840997			
Soil Map Unit Name: 1699A					assification: N/A		
Are climatic/hydrologic conditions	on the site typica	I for this time of year	? (if no, explain in Rer		Yes		
				-			
Are Vegetation <u>No</u> , Soil <u>No</u> ,	or Hydrology No	significantly disturb	oed? Are "Normal Cir	cumstances" present? Yes	-		
Are Vegetation <u>No</u> , Soil <u>No</u> , o	r Hydrology <u>No</u>	naturally problemation	c? (If needed, explain	n any answers in Remarks)			
SUMMARY OF FINDINGS - Atta	ch site map show	ing sampling point lo	cations, transects, in	portant features, etc.			
Hydrophytic Vegetation Present?		No	Is the Sampled Area				
Hydric Soil Present?	,	Yes	within a Wetland?	No			
Wetland Hydrology Present?	1	No	If yes, optional Wetl	and Site ID:			
Remarks: (Explain alternative pro	cedures here or in	n a separate report.)					
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)		
Primary Indicators (minimum of o	ne is required: ch	eck all that annly)					
Surface Water (A1)	<u>ne is required, enc</u>	Water-Stained Leave	ves (B9) Drainage Patterns (B10)				
High Water Table (A2)		Aquatic Fauna (B13)	.5 (05)		Moss Trim Lines (B16)		
Saturation (A3)		Marl Deposits (B15)			Dry-Season Water Table (C2)		
Water Marks (B1)		Hydrogen Sulfide Od	or (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)		Oxidized Rhizospheres on Living Roots (C3)			Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted/St	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorph	Geomorphic Position (D2)		
Iron Deposits (B5)	_	Thin Muck Surface (C7)			Shallow Aquitard (D3)		
Inundation Visible on Aerial Imag	ery (B7)	Other (Explain in Remarks)			Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surfa	ace (B8)			FAC-Neutr	al Test (D5)		
Field Observations:							
Surface Water Present?	No	Depth (inches)					
Water Table Present?	No	Depth (inches)					
Saturation Present?	No	Depth (inches)		Wetland Hydrology P	resent? <u>No</u>		
(includes capillary fringe)							
Describe Recorded Data (stream g	auge, monitoring	well, aerial photos, p	revious inspections),	if available:			
Remarks:							

#### **VEGETATION** - Use scientific names of plants.

Sampling Point: u-149n37...

	Absolute	Dominant	Indicator	Dominance Test work	sheet:
ree Stratum (Plot Size: 30 )	% Cover	Species?	Status	Number of Dominant	Species
Populus tremuloides	20.00	Yes	FAC	That Are OBL, FACW, o	or FAC: <u>3</u> (A)
				Total Number of Domi	nant
				Species Across All Stra	ta: <u>6</u> (B)
·				Percent of Dominant S	pecies
				That Are OBL, FACW, o	or FAC: 50 (A/B)
i				Prevalence Index wor	ksheet:
				Total % Cover of:	Multiply by:
	20	= Total Cover		OBL species	0.00 x 1 0
apling/Shrub Stratum (Plot Size: 15 )				FACW species	40.00 x 2 80
Lonicera tatarica	10.00	Yes	FACU	FACU species	45.00 x 3 180
	5.00	Yes	FAC	-	
				UPL species	
				_ Column Totals	<u>135</u> (A) <u>460</u> (B)
·				-	ce Index = $B/A = 3.4074074$
				Hydrophytic Vegetatio	n Indicators:
·				1 - Rapid Test	for Hydrophytic Vegetation
				no 2 - Dominance	e Test is > 50%
	15	= Total Cover		no 3 - Prevalence	e Index is $\leq 3.0^1$
erb Stratum (Plot Size: 5)				4 - Morpholog	gical Adaptations <sup>1</sup> (Provide
Phalaris arundinacea	40.00	Yes	FACW	supporting data i	n Remarks or on a separate sheet)
Bromus inermis	25.00	Yes	UPL	Problematic Hydrophytic	Vegetation <sup>1</sup> (Explain)
Phleum pratense	20.00	Yes	FACU	1	
Parthenocissus quinquefolia	5.00	No	FACU	Indicators of hydric soil and disturbed or problematic.	wetland hydrology must be present, unless
Toxicodendron radicans	5.00	No	FACU	Definitions of Vegetat	ion Strata:
Cirsium arvense	5.00	No	FACU		ion strata.
			1400	Trap Woody plants 2 in	n. (.76 cm) or more in diameter at breast
				height (DBH), regardless	
L				-	
				Sapling/Shrub - Woody or equal to 3.28 ft (1 m)	plants less than 3 in. DBH and greater tha tall
0				or equal to 5.20 ft (1 fil)	
1					non-woody) plants, regardless of size, and
2				woody plants less than 3.28 ft tall.	
	100	= Total Cover		Woody vines - All wood	y vines greater than 3.28 ft in height.
Voody Ving Stratum (Plot Size 30					
·				Hydrophytic Vegetation	
				Hydrophytic Vegetation Present?	No
Voody Vine Stratum (Plot Size: <u>30</u> )				Vegetation	<u>No</u>

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### SOIL

		depth nee	ded to document the			nfirm th	e absence of indi	cators.)
Depth	Matrix		Redox Features			. 2		- ·
(inches)	Color (moist) 10YR 2 1	% 100	Color (moist)	%	Туре⁺	Loc <sup>2</sup>	Texture	Remarks
0-8	101R 2 1	<u> </u>	10YR 4 6			. <u> </u>	<u>cl</u>	
8-15	10YR 5 2		10YR 5 8	- 5	- <u>c</u>	<u>M</u>	<u>cl</u>	
15-24	1016 5 2	90	1016.3.9	_ 10	<u>C</u>	<u>M</u>	<u>SL</u>	
		<u> </u>						
		<u> </u>				·		
		— — ·				·		
		<u> </u>				·		
		<u> </u>						
		<u> </u>						
		·						
		— — ·				·		
<sup>1</sup> Type: C=Concent	ration D=Depletion RM:	·	trix, MS=Masked Sand G					<sup>2</sup> Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicat							Indicators for P	roblematic Hydric Soil <sup>3</sup> :
			Polyvalue Below	Surface (	S8) <b>(LRR R</b>	, MLRA	_	< (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histosol (A1			☐ 149B)	(60) (1.5			_	rie Redox (A16)( <b>LRR K, L, R</b> )
Histic Epipe			Thin Dark Surfac			-		ky Peat or Peat (S3) (LRR K, L, R)
Black Histic			Loamy Mucky M			)		
Hydrogen Si			Loamy Gleyed M					ce (S7) (LRR K, M)
Stratified La								Below Surface (S8) (LRR K, L)
	elow Dark Surface (A11)		Redox Dark Surfa				_	Surface (S9) (LRR K, L)
Thick Dark S	Surface (A12)		Depleted Dark S	-	')		_	nese Masses (F12) (LRR K, L, R)
Sandy Muck	xy Mineral (S1)		Redox Depressio	ns (F8)			Piedmont F	Floodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy Gleye	ed Matrix (S4)						Mesic Spoc	dic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy Redo	x (S5)						Red Parent	t Material (F21)
Stripped Ma	atrix (S6)						Very Shallo	ow Dark Surface (TF12)
Dark Surface	e (S7) <b>(LRR R, MLRA 149E</b>	3)					Other (exp	olain in remarks)
Restrictive Layer (i	if observed):		]					
Туре:						ı	Hydric Soil Present?	Yes
Depth (in	iches):						igane son resent:	
Remarks:								
1								

## Site Photograph 1



Latitude: 47.6876220480052

Longitude: -95.3884107247883

Direction: East

Remarks: Upland Cowardin Classification:

Eggers & Reed:

Circular 39:

## Site Photograph 2



Latitude: 47.6875994168666

Longitude: -95.388423130005

Direction: West

Remarks: Upland Cowardin Classification:

Eggers & Reed:

Circular 39: