WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: 13_mainline	City/County: Clearwater		Sampling Date: 2017-06-19				
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: w-146n37w12-g1				
Investigator(s): SMR, TDT	Section, Township,	Range: S12, T146N, R37V	V				
Landform (hillslope, terrace, etc.): Depression Subregion (LRR or MLRA): Soil Map Unit Name: 40C	 Latitude: <u>4</u>	Local Relief (concave, co 7.477664970837 Lo	Slope (%): nvex, none): CC				
Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes							
Are Vegetation No_, Soil No_, or Hydrology No_ significantly disturbed? Are "Normal Circumstances" present? Yes_							
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)							
SUMMARY OF FINDINGS - Attach site map show	ing sampling point loca	tions, transects, importa	nt features, etc.				
Hydrophytic Vegetation Present?	Yes	Is the Sampled Area					
Hydric Soil Present?	Yes	within a Wetland?	Yes				
Wetland Hydrology Present?	Yes	If yes, optional Wetland	Site ID: PSS1C				
LIVERGLOCY							
HYDROLOGY			Consider the disabout (univirum of the grant in all				
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; che	Surface Soil Cracks (B6)						
yes Surface Water (A1)	Water-Stained Leaves	s (B9)	Drainage Patterns (B10)				
yes High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)				
yes Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)				
no Water Marks (B1)	Hydrogen Sulfide Odo	or (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizosphere		Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced	Iron (C4)	Stunted/Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction	n in Tilled Soils (C6)	<u>yes</u> Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rem	arks)	Microto pograp hic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)			<u>YES</u> FAC-Neutral Test (D5)				
Field Observations:	Develop (See developed)	4					
Surface Water Present? Yes	Depth (inches)						
Water Table Present? Yes	Depth (inches) 0		Vec				
Saturation Present? Yes	Depth (inches)	<u> </u>	Wetland Hydrology Present? Yes				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring							
Remarks:	wen, acrai priotos, pre-	Todo Hopectono, in divant					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2.				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4.			_	Percent of Dominant Species
		_	_	That Are OBL, FACW, or FAC: 100 (A/B)
5 6.		_		Prevalence Index worksheet:
		_	_	-
7				Total % Cover of: Multiply by:
	0	_ = Total Cover		OBL species <u>50.00</u> x 1 <u>50</u>
Sapling/Shrub Stratum (Plot Size: 15				FACW species <u>50.00</u> x 2 <u>100</u>
1				FACU species <u>0.00</u> x 3 <u>0</u>
2		_		UPL species <u>0.00</u> x 4 <u>0</u>
3				Column Totals(A)(B)
4		_		Prevalence Index = B/A = $\frac{1.5}{}$
5			_	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				yes 2 - Dominance Test is > 50%
	0	= Total Cover		yes 3 - Prevalence Index is ≤ 3.0 ¹
Herb Stratum (Plot Size: 5)		_		4 - Morph ological Adaptations (Provide
1. Scirpus cyperinus	40.00	Yes	OBL	supporting data in Remarks or on a separate sheet)
2. Carex vulpinoidea	20.00	Yes	FACW	Problematic Hydrophytic Vegetation (Explain)
3. Carex vulpinoidea	20.00	Yes	FACW	Troblematic hydrophytic vegetation (Explain)
4. Iris versicolor	10.00	No	OBL	Indicators of hydrics oil and wetland hydrology must be present, unless disturbed
D				or problematic.
5. Ranunculus repens	10.00	No No	FACW	Definitions of Vegetation Strata:
6			- -	
7		_		Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DB H), regardless of height.
8				-
9		_	- -	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				equal to 3.28 it (1 m) tail.
11.				Herb - All herbaeceous (non-woody) plants, regardless of size, and
12.				woody plants less than 3.28 ft tall.
	100	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30)				,
1				
2				Hydrophytic Vegetation
3				Present? Yes
4				_
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	.)			

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