## WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: 13_mainline	City/County: Clearwater		Sampling Date: <u>2017-06-12</u>			
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: w-145n36w11-c1			
Investigator(s): SMR, MRG	Section, Township, Range: S11, T145N, R36W					
Landform (hillslope, terrace, etc.): Depression  Subregion (LRR or MLRA):  Soil Map Unit Name: 1878  Are climatic/hydrologic conditions on the site typic  Are Vegetation No , Soil No , or Hydrology No	al for this time of year? (	if no, explain in Remarks)	NWI Classification: PSS1C  I: Yes  Tances" present? Yes			
Are Vegetation No , Soil No , or Hydrology No	-					
SUMMARY OF FINDINGS - Attach site map show		1	int features, etc.			
Hydrophytic Vegetation Present?	Yes	Is the Sampled Area				
Hydric Soil Present?	Yes	within a Wetland?	<u>Yes</u>			
Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or i	Yes	If yes, optional Wetland	l Site ID: w-145 n36w11-c			
HYDROLOGY  Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; ch		(0.0)	Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves	s (B9)	Drainage Patterns (B10)			
yes High Water Table (A2) yes Saturation (A3)	Aquatic Fauna (B13) Marl Deposits (B15)		Moss Trim Lines (B16)  Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odd	or (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizosphere		Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced		Stunted/Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction		yes Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C	7)	no Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rem	narks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)			<u>yes</u> FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present? <u>No</u>	Depth (inches)					
Water Table Present? <u>Yes</u>	Depth (inches)	0				
Saturation Present? <u>Yes</u>	Depth (inches)	0	Wetland Hydrology Present? Yes			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring Remarks:	g well, aerial photos, pre	vious inspections), if avail	lable:			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30 )	% Cover	Species?	Status	Num ber of Dominant Species
1.				That Are OBL, FACW, or FAC: 3 (A)
2.		_		Total Number of Dominant
		-		Species Across All Strata: 3 (B)
3			-	Percent of Dominant Species
4				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>100.00</u> x 1 <u>100</u>
Sapling/Shrub Stratum (Plot Size: 15 )				FACW species <u>30.00</u> x 2 <u>60</u>
1. Alnus incana	30.00	Yes	FACW	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 130 (A) 160 (B)
4.				Prevalence Index = B/A = 1.2307692
5.				Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
7				yes 2 - Dominance Test is > 50%
	30	_ = Total Cover		yes 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations (Provide
1. Carex stricta	70.00	Yes	OBL	supporting data in Remarks or on a separate sheet)
2. <u>Carex lacustris</u>	30.00	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3			_	1
4				Indicators of hydrics oil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
	-		-	height (DBH), 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 5:20 it (2:11) tall
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 )		_ = 10101 00001		,,
1		_	_	l
2				Hydrophytic Vegetation
3			_	Present? Yes
4				
	0	_=Total Cover		
Remarks: (include photo numbers here or on a separate sheet				"
The state of the s	.,			

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ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  ydin Soil indicators:  Histosol (A1)	OIL		d 4.0 do	!		.£:l.		Sampling Point: w-145n36w11-c1
Color (moist)		eptn neeae				firm the	e absence of indicat	ors.)
Indicators: Indicators: Indicators: Indicators for Problematic Hydric Soil 3:  Histosol (A1)	inches) Color (moist)					Loc <sup>2</sup>		Remarks
Indicators: Indicators: Indicators: Indicators: Indicators for Problematic Hydric Soil 3:  Histosol (A1)								
Indicators: Indicators: Indicators: Indicators: Indicators for Problematic Hydric Soil 3:  Histosol (A1)	Funcy C-Concentration D=Denletion RM=Re	aduced Matrix	, MS-Macked Sand Gr					2 ocation: PI =Pore lining M=Mati
Histosol (A1)		!uuceu iviacii.	, IVIS-IVIASKEU Janu Gra	1115.			Indicators for Prob	
Restrictive Layer (if observed):  Type: Hydric Soil Present? Yes	Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)	] [ ] [ ]	Thin Dark Surface Loamy Mucky Min Loamy Gleyed Ma Depleted Matrix (I Redox Dark Surfac	(S9) (LRR meral (F1) ( atrix (F2) F3) ce (F6) rface (F7)	R, MLRA:	149B)	Coast Prairie R  5 cm Mucky P  Dark Surface (  Polyvalue Belo  Thin Dark Surfa  Iron-Maganes  Piedmont Floo  Mesic Spodic (  Red Parent Ma	Redox (A16)(LRR K, L, R)  Peat or Peat (S3) (LRR K, L, R)  (S7) (LRR K, M)  ow Surface (S8) (LRR K, L)  face (S9) (LRR K, L)  se Masses (F12) (LRR K, L, R)  odplain Soils (F19) (MLRA 149B)  (TA6) (MLRA 144A, 145, 149B)  laterial (F21)  Dark Surface (TF12)
Type: Hydric Soil Present? Yes					$\overline{}$			
						ŀ	-Hydric Soil Present? Yes	<u>s</u>

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