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

Project/Site: 13_mainline City/County: Clearwater			Sampling Date: 2017-06-14					
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: w-145 n36w2-l2					
Investigator(s): SMR, MRG	Section, Township, Range: S2, T145N, R36W							
Landform (hillslope, terrace, etc.): Depression  Subregion (LRR or MLRA):  Soil Map Unit Name: 1294  Are climatic/hydrologic conditions on the site typ  Are Vegetation No , Soil No , or Hydrology 1  Are Vegetation No , Soil No , or Hydrology No	ical for this time of year? (	if no, explain in Remarks	ongitude: -95.22255532 Datum: NAD83  NWI Classification: PSS1C/EMC  Yes  tances" present? Yes					
SUMMARY OF FINDINGS - Attach site map she	owing sampling point loca	tions, transects, importa	ant 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	d Site ID: <u>w-145 n36w2-l</u>					
HYDROLOGY Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil Cracks (B6)					
yes Surface Water (A1)	Wat er-Stained Leave	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)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)					
Sediment Deposits (B2)		s on Living Roots (C3)	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 in Tille		yes Geomorphic Position (D2)					
Iron Deposits (B5)	<del></del>		Shallow Aquitard (D3)  Microtopographic Relief (D4)					
Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)		idiksj	yes FAC-Neutral Test (D5)					
Field Observations:			ne nead a rest(55)					
Surface Water Present? Yes	Depth (inches)	6						
Water Table Present? Yes	Depth (inches) 0							
Saturation Present? <u>Yes</u>	Depth (inches) $0$		Wetland Hydrology Present? Yes					
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitori  Remarks:	ng well, aerial photos, pre	vious inspections), if avai	ilable:					

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size: 30	% Cover	Species?	Status	Num ber of Do minant 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 Do minant Species	
5.				That Are OBL, FACW, or FAC: 100 (A/B)	
				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
	0	= Total Cover		OBL species 80.00 x 1 80	
Sapling/Shrub Stratum (Plot Size: 15 )				FACW species <u>20.00</u> x 2 <u>40</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 <u>100</u> (A) <u>120</u> (B)	
4				Prevalence Index = B/A = $\frac{1.2}{}$	
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 <sup>1</sup>	
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations <sup>1</sup> (Provide	
1. Typha X glauca	40.00	Yes	OBL	supporting data in Remarks or on a separate sheet)	
2. Phalaris arundinacea	20.00	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
3. Scirpus cyperinus	15.00	No	OBL	1	
4. Carex lacustris	15.00	No	OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
5. Carex stricta	10.00	No	OBL	Definitions of Vegetation Strata:	
6.		-		,	
7.				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast	
8.				height (DB H), regardless of height.	
9.				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or	
				equal to 3.28 ft (1 m) tall.	
10		<u></u>			
11		-		Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
12				, ·	
	100	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot Size: 30					
1					
2				Hydrophytic	
3.				Vegetation Present? Yes	
4					
	0	=Total Cover			
Remarks: (in clude photo num bers here or on a separate sheet.	)				
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OIL								Sampling Point: w-145n36w2-l2
rofile Descrip	tion: (Describe to the	depth nee	eded to document the in	ndicato	or or cor	ıfirm th	e absence of indicate	ors.)
Depth	Matrix		Redox Fe	atures				
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2 1	_ 100 _					<u>FSL</u>	
6-24	10YR 5 1	100					<u>s</u>	
			<del></del>					_
	. ———		<del></del>					
	. ———							
Type: C=Concent	tration, D=Depletion, RM=	Reduced Ma	atrix, MS=Masked Sand Grain	ns.				<sup>2</sup> Location: PL=Pore Lining, M=Matr
Hydric Soil Indica	itors:						Indicators for Probl	lematic Hydric Soil <sup>3</sup> :
Listocal (A)	41		Polyvalue Below Su	ırface (S8	8) (LRR R,	MLRA	2 cm Muck (A	10) ( <b>LRR K, L, MLRA 149B</b> )
Histosol (A1	•		☐ TI: 2 + 6 ( (6		~			
☐ Histic Epipe			Thin Dark Surface (S				$\vdash$	Redox (A16)(LRR K, L, R)
☐ Black Histic	:(A3)		Loamy Mucky Mine	ral (F1) !	(LRR K, L)		$\vdash$	eat or Peat (S3) (LRR K, L, R)
☐ Hydrogen S	ulfide (A4)		Loamy Gleyed Matr	rix (F2)			Dark Surface (	S7) ( <b>LRR K, M</b> )
Stratified La	ayers (A5)		Depleted Matrix (F3	3)			Polyvalue Belo	ow Surface (S8) (LRRK, L)
Depleted Be	Below Dark Surface (A11)		Redox Dark Surface	e (F6)			Thin Dark Surfa	ace (S9) ( <b>LRR K, L</b> )
Thick Dark S	Surface (A12)		Depleted Dark Surfa	ace (F7)			Iron-Maganes	e Masses (F12) (LRR K, L, R)
	cky Mineral (S1)		Redox Depressions				Piedmont Floo	dplain Soils (F19) (MLRA 149B)
_	ved Matrix (S4)			( /			$\vdash$	TA6) <b>(MLRA 144A, 145, 149B)</b>
_								
Sandy Redo	ж (S5)						Red Parent Ma	aterial (F21)
Stripped Ma	atrix (S6)						☐ Very Shallow D	Dark Surface (TF12)
☐ Dark Surfac	ce (S7) <b>(LRR R, MLRA 149B)</b>	)					Other (explain	ı in remarks)
Restrictive Layer (	(if observed):		]					
Туре:							Hydric Soil Present? Yes	
Donath //	n ches):					'	Tyuric son Fresent:	

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