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

Project/Site: I3_mainline	ect/Site: 13_mainline City/County: Clearwater			Sampling Date: 2017-06-16					
Applicant/Owner: Enbridge	Owner: Enbridge State: Minnes		State: Minnesota	Sampling Point: u-146n36w10-b1					
Investigator(s): DPT, TDT		Section, Township,	Range: S10, T146N, F	R36W		_			
Landform (hillslope, terrace, etc.): Side	Slope		Local Relief (concave	e. convex. none); VV	Slope 26-60				
Subregion (LRR or MLRA):	<u> </u>	 Latitude: 4	7.4757331097	Longitude: -95.22971657	 7 Datum: NAD	 983			
Soil Map Unit Name: 867C		_		·	assification: N/A				
Are climatic/hydrologic conditions on t	he site tynical	I for this time of year? (	if no explain in Rema	_	Yes				
Are Vegetation Yes, Soil No, or H	lydrology No	_ significantly disturbe	d? Are "Normal Circu	ımstances" present? No					
Are Vegetation No_, Soil No_, or Hydrology No_ naturally problematic? (If needed, explain any answers in Remarks)									
SUMMARY OF FINDINGS - Attach s	ite map show	ing sampling point loca	tions, transects, imp	ortant features, etc.					
Hydrophytic Vegetation Present?		no	Is the Sampled Area	1					
Hydric Soil Present?		No	within a Wetland?		No				
Wetland Hydrology Present?		No	If yes, optional Wetl	and Site ID:					
Remarks: (Explain alternative procedu	res here or in	a separate report.)	,						
Cattle pasture									
HYDROLOGY									
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of	two required)			
Primary Indicators (minimum of one is required; check all that apply)   Surface Soil Cracks (B6)									
Surface Water (A1)	Wat er-Stain ed Leave	_ Water-Stained Leaves (B9)		Drainage Patterns (B10)					
High Water Table (A2)	_	Aquatic Fauna (B13)		Moss Tri	Moss Trim Lines (B16)				
Saturation (A3)	_	Marl Deposits (B15)		Dry-Seas	Dry-Season Water Table (C2)				
Water Marks (B1)	_	Hydrogen Sulfide Odd	or (C1)	Crayfish I	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Sediment Deposits (B2) Oxidiz		Oxidized Rhizospheres on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	_ Drift Deposits (B3) Pr		Presence of Reduced Iron (C4)		Stunted/Stressed Plants (D1)				
Algal Mat or Crust (B4)	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)				
Iron Deposits (B5)	Iron Deposits (B5)		Thin Muck Surface (C7)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		Other (Explain in Remarks)		Microtop	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (E	38)			FAC-Neu	tral Test (D5)				
Field Observations:									
Surface Water Present?	No	Depth (inches)							
Water Table Present?	<u>No</u>	Depth (inches)							
Saturation Present?	<u>No</u>	Depth (inches)	<u> </u>	Wetland Hydrology	Present?	<u>No</u>			
(includes capillary fringe)									
Describe Recorded Data (stream gauge	e, monitoring	well, aerial photos, pre	vious inspections), if a	available:					
Remarks:									
UPLAND									
0.2.4.5									

	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: 0 (A)	
2.				Total Number of Dominant	
3				Species Across All Strata: 2(B)	
4				Percent of Dominant Species	
5.				That Are OBL, FACW, or FAC: 0 (A/B)	
6.				Prevalence Index worksheet:	
7		-		Total % Cover of: Multiply by:	
	0	= Total Cover		OBL species 0.00 x 1 0	
	<u>-</u>	_ = rotar cover		FACW species 0.00 x 2 0	
				FACU species 40.00 x 3 160	
2			-	UPL species 50.00 x 4 250	
		-		Column Totals 100 (A) 440 (B)	
4.		-		Prevalence Index = B/A = 4.4	
		-		,	
				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				no 2 - Dominance Test is > 50%	
_	0	_ = Total Cover		no 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>	
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
1. Bromus inermis	40.00	Yes	_ UPL		
2. Poa pratensis	30.00	Yes		Problematic Hy drophytic Vegetation <sup>1</sup> (Explain)	
3. Taraxacum officinale	10.00	No	FACU	1 Indicators of hydrics oil and wetland hydrology must be present, unless disturbed	
4. Cirsium vulgare	10.00	No	_ UPL	or problematic.	
5. Plantago major	10.00	No	FAC	Definitions of Vegetation Strata:	
6					
7				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	
10				equal to 3.28 ft (1 m) tall.	
11.	_		_	Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vines - All woody vines greater than 3.28 ft in height.	
12.			_		
	100	= Total Cover	_		
Woody Vine Stratum (Plot Size: 30		_ = Total Cover		violety vines - All woody vines greater trial 3.20 it in freight.	
1		_	_	l Lhuduan hudia	
2		_	_	Hydrop hytic Vege tation	
3		_	_	Present? <u>no</u>	
4		_	_		
	0	_=Total Cover			
Remarks: (include photo numbers here or on a separate sheet.	.)				

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