WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: L3R	City/Cou	City/County: Clearwater			Sampling Date: 2016-07-01		
Applicant/Owner: Enbridge		Sta	ate: Minnesota	S	Sampling Point: <u>u-149</u>	n38w23-aa1	
Investigator(s): DPT, ZCW	Se	ection, Township, F	Range: <u>S23, T149</u>	N, R38W			
Landform (hillslope, terrace, etc.):	Rise	Lo	cal Relief (concav	ve, convex, none): VL	Slope	(%): 0-2%	
Subregion (LRR or MLRA):		 Latitude: 47.70	28092602	Longitude: -95.47689	—— 9462	AD83	
Soil Map Unit Name: 38C2				N	WI Classification: PEN	/IC	
Are climatic/hydrologic conditions	on the site typical for t	nis time of year? (if	f no, explain in Re		Yes		
, ,			•	•			
Are Vegetation No_, Soil No_,	or Hydrology NO sign	ificantly disturbed	? Are "Normal C	ircumstances" present	? <u>Yes</u>		
Are Vegetation No , Soil No , or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)							
SUMMARY OF FINDINGS - Atta	ch site map showing sa	mpling point locat	ions, transects, i	mportant features, etc	c .		
Hydrophytic Vegetation Present?	No	ls ·	the Sampled Are	a			
Hydric Soil Present?	<u>No</u>	wi	ithin a Wetland?		No		
Wetland Hydrology Present?	<u>No</u>		yes, optional We	tland Site ID:			
Remarks: (Explain alternative pro	cedures here or in a sep	arate report.)					
No digging, existing field road, po	tential buried utilities.						
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary	Indicators (minimum	of two required)	
Primary Indicators (minimum of o	ne is required; check all	that apply)		Sur	rface Soil Cracks (B6)		
Surface Water (A1)		ater-Stained Leaves (B	9)		inage Patterns (B10)		
		uatic Fauna (B13)	•		Moss Trim Lines (B16)		
Saturation (A3)				 Dry	Dry-Season Water Table (C2)		
Water Marks (B1)			or (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)			n Living Roots (C3)	Satu	Saturation Visible on Aerial Imagery (C9)		
		Presence of Reduced Iron (C4)			Stunted/Stressed Plants (D1)		
		Recent Iron Reduction in Tilled Soils (C6)			Geomorphic Position (D2)		
Iron Deposits (B5)	Th	in Muck Surface (C7)		Shal	llow Aquitard (D3)		
Inundation Visible on Aerial Imag	ery (B7) Ot	her (Explain in Remark	cs)	Mic	rotopographic Relief (D4)		
Sparsely Vegetated Concave Surfa	ace (B8)			FAC	-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	<u>No</u>	Depth (inches)					
Water Table Present?		Depth (inches)					
Saturation Present?	<u>No</u>	Depth (inches)		Wetland Hydro	logy Present?	<u>No</u>	
(includes capillary fringe)							
Describe Recorded Data (stream g	auge, monitoring well,	aerial photos, prev	ious inspections)	, if available:			
Remarks:							
No digging, could not confirm/de	ny water table.						
I							

	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: 0 (A)
2.				Total Number of Dominant
3.				Species Across All Strata: 3 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A/B)
		_	_	
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	_ = Total Cover		OBL species <u>0.00</u> x 1 <u>0</u>
Sapling/Shrub Stratum (Plot Size: 15				FACW species <u>0.00</u> x 2 <u>0</u>
1		_	_	FACU species
2	-			UPL species <u>0.00</u> x 4 <u>0</u>
3				Column Totals <u>100</u> (A) <u>400</u> (B)
4.				Prevalence Index = B/A = 4
5.				Hydrophytic Vegetation Indicators:
		_	_	1 - Rapid Test for Hydrophytic Vegetation
		-	-	no 2 - Dominance Test is > 50%
7				
_	0	_ = Total Cover		no 3 - Prevalence Index is ≤ 3.0¹
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations (Provide
1. Poa pratensis	40.00	_ Yes	_ FACU	supporting data in Remarks or on a separate sheet)
2. Phleum pratense	30.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Trifolium pratense	20.00	Yes	FACU	1, 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:
4. Taraxacum officinale	10.00	No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6.		_	_	_
		_	_	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
7		_	_	height (DBH), regardless of height.
8	-			<u> </u>
9		_	_	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				
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				- Illudaankutia
2		_	_	Hydrophytic Vegetation
3				Present? No
4	_			
	0	_=Total Cover		
Remarks: (include photo numbers here or on a separate shee	t.)			
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Sampling Point: u-149n38... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Loc² (inches) Color (moist) Color (moist) % Type¹ Texture Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil³: Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, M) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Maganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (explain in remarks) Restrictive Layer (if observed): Hydric Soil Present? No Depth (inches): Remarks: No digging, soils assumed non-hydric based on vegetation and hydrology.

Site Photograph 1 Sampling Point: u-149n38w23-aa1



Latitude: 47.7028092602712	Cowardin Classification:
Longitude: -95.4768945370759	Circular 39:
Direction: south	Eggers & Reed:
Remarks:	
upland	

Site Photograph 2 Sampling Point: u-149n38w23-aa1



Latitude: 47.7027894789797	Cowardin Classification:
Longitude: -95.4769091215874	Circular 39:
Direction: north	Eggers & Reed:
Remarks:	