WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: L3R	City/Cour	City/County: Clearwater			Sampling Date: 2016-07-01		
Applicant/Owner: Enbridge		State: Minnesota			Sampling Point: CL016a15U		
Investigator(s): DPT, ZCW	Sec	ction, Township, Ra	ange: S23, T149	9W, R38W			
Landform (hillslope, terrace, etc.): Si	de Slope	Loc	al Relief (concav	ve, convex, none): <u>VV</u>	Slope ((%): 3-7%
Subregion (LRR or MLRA):		 Latitude: 47.704	44812404	Longitude: -95.	.48021947	Datum: NA	.D83
Soil Map Unit Name: 38C2					NWI Class	sification: N/A	
Are climatic/hydrologic conditions o	n the site typical for th	is time of year? (if	no, explain in Re	emarks):		Yes	
Are Vegetation No , Soil No , o		, ,	•	,	resent? Yes		
Are Vegetation No_, Soil No_, or Hydrology No_ naturally problematic? (If needed, explain any answers in Remarks)							
SUMMARY OF FINDINGS - Attach	ı site map showing san	npling point location	ons, transects, i	important featur	es, etc.		
Hydrophytic Vegetation Present?	No	ls t	he Sampled Are	ea			
Hydric Soil Present?	<u>No</u>	No within a Wetland?		•	<u>No</u>		
Wetland Hydrology Present?	<u>No</u>		If yes, optional Wetland Site ID:				
Remarks: (Explain alternative proce	dures here or in a sepa	rate report.)					
No digging, existing field road, pote	ential buried utilities.						
HYDROLOGY							
Wetland Hydrology Indicators:				Seco	ondary Indicato	ors (minimum o	of two required)
Primary Indicators (minimum of one	is required; check all t	hat apply)			Surface Soil	Cracks (B6)	
Surface Water (A1) Water-Stained Leaves (B9)			9)	Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fauna (B13)			Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)			Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Od		lrogen Sulfide Odor (C	r (C1)Crayfish Burrows (C8)				
Sediment Deposits (B2) Oxidized Rhizospl		dized Rhizospheres on	eres on Living Roots (C3)			Saturation Visible on Aerial Imagery (C9)	
		sence of Reduced Iron	· ·			Stunted/Stressed Plants (D1)	
 -		ent Iron Reduction in 1				Position (D2)	
	Iron Deposits (B5) Thin Muck Surface (C		· —				
		er (Explain in Remarks	plain in Remarks)			Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface	≥ (B8)				FAC-Neutral 1	est (D5)	
Field Observations:	No						
Surface Water Present?		Depth (inches)					
Water Table Present?		Depth (inches)					No
Saturation Present?	<u>No</u> [Depth (inches)		Wetland	Hydrology Pre	sent?	<u>No</u>
(includes capillary fringe)							
Describe Recorded Data (stream gau	uge, monitoring well, a	erial photos, previo	ous inspections)), if available:			
Remarks:							
No digging, could not confirm/deny	water table.						

VEGETATION - (Use scientific names of pla	ants.			Sampling Point: CL016a15U
		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot Size: 30		Species?	Status	Number of Dominant Species
1.			·		That Are OBL, FACW, or FAC: 0 (A)
					Total Number of Dominant
				_	Species Across All Strata: 4 (B)
					Percent of Dominant Species
			_		That Are OBL, FACW, or FAC: 0 (A/B)
					Prevalence Index worksheet:
7					Total % Cover of: Multiply by:
<i>'</i>		0	= Total Cover		OBL species 0.00 x 1 0
Capling/Chruh Stratu	m (Plot Size: 15	<u> </u>	10(a) COVC		FACW species 0.00 x 2 0
	-				
			_		
					UPL species <u>25.00</u> x 4 <u>125</u>
3					Column Totals
					Prevalence Index = B/A = 4.25
5					Hydrophytic Vegetation Indicators:
6					1 - Rapid Test for Hydrophytic Vegetation
7					no 2 - Dominance Test is > 50%
		0	_ = Total Cover		<u>no</u> 3 - Prevalence Index is $\le 3.0^1$
Herb Stratum (Plot S	Size: <u>5</u>				4 - Morphological Adaptations ¹ (Provide
1. Phleum pratense		30.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
2. Centaurea maculo	osa	25.00	Yes		Problematic Hydrophytic Vegetation ¹ (Explain)
3. Trifolium pratense	<u> </u>	25.00	Yes	FACU	
4. Poa pratensis		20.00	Yes	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
					Definitions of Vegetation Strata:
·			_		
					Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
				<u> </u>	height (DBH), regardless of height.
			_		- Charle Westernberg than 2 in DDH and greater than
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 woody plants less than 3.28 ft tall.
12					woody plants less than 5.20 it tail.
			= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum	(Plot Size: <u>30</u>				
1.					
2.		<u> </u>			Hydrophytic
3.			_		Vegetation No
4.			_	_	Present?
4		0	-Total Cover		┥
			=Total Cover		
Remarks: (include pr	hoto numbers here or on a separa	ate sheet.)			
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Sampling Point: CL016a15U **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: CL016a15U



Cowardin Classification:				
Circular 39:				
Eggers & Reed:				

Site Photograph 2 Sampling Point: CL016a15U



Latitude:	47.7044814918634	Cowardin Classification:
Longitude:	-95.4802193027879	Circular 39:
Direction: sou	th	Eggers & Reed:
Remarks:		
upland		
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