WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci	Clearwate ty/County:	r	Sampling Date:	2015-07-10					
Enbridge			Minnesota	, -	CLC5005h1W					
Applicant/Owner:ACM/LE	:R		State:	Sampling Point:						
Investigator(s):		Sec	tion, Township, Range: _							
de Landform (hillslope, terrace, etc.):	pression		Local Relief (concave, co	Conca onvex, none):	0-2 Slope (%):					
		47	7.6666087424	-95.40621497 ngitude: Dat	Minnesota State					
Subregion (LRR or MLRA):		o 15 percent slopes	LON	igitude: Dat	PSS1C					
Soil Map Unit Name:		——————————————————————————————————————		NWI Classification						
Are climatic/hydrologic conditions or	the site typic	al for this time of year	? (if no, explain in Remar	rks):	Yes					
No No No No Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present?										
No No No										
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks)										
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.										
SOMMAN OF THE INCOME		Yes	Turiscets, impo	realit reatures, etc.						
Hydrophytic Vegetation Present?			Is the Sampled Area	V						
Hydric Soil Present?		Yes ——	within a Wetland?	Yes	_					
Watland Hudralagy Present?		Yes	If yes, optional Wetland	d Site ID:						
Wetland Hydrology Present? Remarks: (Explain alternative proced	dures here or i	n a senarate report)								
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a fresh wet meadow found in a depression of a mesic hardwood forest and dominated by reed canary grass.										
				, , 8						
LIV/DDOLGOV										
HYDROLOGY				Carandam Indiantam Indian	-i					
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)					
Primary Indicators (minimum of one	is required; ch			Surface Soil Cracks (
Surface Water (A1)	_	Water-Stained Leave		Drainage Patterns (E						
High Water Table (A2)	_	Aquatic Fauna (B13)Marl Deposits (B15)		Moss Trim Lines (B1						
					Dry-Season Water Table (C2) Crayfish Burrows (C8)					
Sediment Deposits (B2)		Hydrogen Sulfide Oc Oxidized Rhizospher	res on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3)	_	Presence of Reduce		Stunted/Stressed Pla	- ' ' '					
Algal Mat or Crust (B4)	_		on in Tilled Soils (C6)	yes Geomorphic Position (D2)						
Iron Deposits (B5)	_	Thin Muck Surface (C7)	Shallow Aquitard (D3	·)					
Inundation Visible on Aerial Imagery (B7) Other (Expl.			marks)	Microtopographic Re	lief (D4)					
Sparsely Vegetated Concave Surface	e (B8)			yes FAC-Neutral Test (D5)					
Field Observations:										
Surface Water Present?	<u>No</u>	Depth (inches)								
Water Table Present?	<u>No</u>	Depth (inches)								
Saturation Present?	<u>No</u>	Depth (inches)		Wetland Hydrology Present?	<u>Yes</u>					
(includes capillary fringe)				11-1-1-1						
Describe Recorded Data (stream gau	ge, monitoring	g weii, aeriai photos, p	revious inspections), if a	valiable:						
Remarks:										
The sample point is located in a depi	ression and pa	sses the FAC-Neutral t	test.							

Sampling Point: CLC5005h...

Tree Stratum									
1									
2									
4									
4									
5									
That Are OBL, FACW, or FAC:									
7									
Sapling/Shrub Stratum (Plot Size: 15 ft 10.00 Yes FACW FACW species 32.00 x 1 32 140 Fraxinus nigra 10.00 Yes FACW FACW species 4.00 x 3 0 Ulmus americana 5.00 Yes FACW UPL species 0.00 x 4 0 Column Totals 106 (A) 184 (B) Prevalence Index = B/A = 1.7358490 FACW species 4.00 x 3 0 Column Totals 106 (A) 184 (B) FACW species 4.00 x 3 0 Column Totals 106 (A) 184 (B) FACW species 4.00 x 3 0 Column Totals 106 (A) 184 (B) FACW species 4.00 x 3 0 FACW species 4.00									
Sapling/Shrub Stratum (Plot Size: 15 ft 10.00 Yes FACW FACW species 70.00 x 2 140									
1. Fraxinus nigra 10.00 Yes FACW FACU species 4.00 x 3 0 2. Ulmus americana 5.00 Yes FACW UPL species 0.00 x 4 0 3. Column Totals 106 (A) 184 (B) Prevalence Index = B/A = 1.7358490 Hydrophytic Vegetation Indicators: 5. Yes 1 - Rapid Test for Hydrophytic Vegetation 7. Yes 2 - Dominance Test is > 50%									
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6									
7									
15 = Total Cover $\frac{\text{Yes}}{\text{S}}$ 3 - Prevalence Index is $\leq 3.0^{1}$									
Herb Stratum (Plot Size: 5 ft) 4 - Morphological Adaptations 1 (Provide									
1. Stellaria longifolia 30.00 Yes FACW supporting data in Remarks or on a separate sheet)									
2. Phalaris arundinacea 20.00 Yes FACW Problematic Hydrophytic Vegetation ¹ (Explain)									
3. Sium suave 15.00 No OBL									
4. Carex lacustris 15.00 No OBL disturbed or problematic.									
5. Alisma triviale 2.00 No OBL Definitions of Vegetation Strata:									
6. Alopecurus pratensis 2.00 No FAC									
7. Ranunculus acris 2.00 No FAC Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast									
8									
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									
86 = Total Cover Woody vines - All woody vines greater than 3.28 ft in height.									
Woody Vine Stratum (Plot Size:)									
2. Hydrophytic Vegetation									
3 Present?									
4									
0 =Total Cover									
Remarks: (include photo numbers here or on a separate sheet.)									
The vegetation is dominated by long-leaved stitchwort and reed canary grass.									

SOIL								Sampling Point: CLC5005h	
Profile Descr	ription: (Describe to the	e depth n	eeded to document the	indicat	or or co	nfirm th	e absence of ind	licators.)	
Depth	Matrix		Redox	Feature		_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4	10YR 2 1	100					sil		
4-14	10YR 3 1	98	10YR 3 6	_ 2	<u>C</u>	M	sil		
14-24	10YR 3 1	_ 100					sil		
		_		_					
		_		_					
			-						
			-						
		_							
	_		-			-			
	_		-						
¹ Type: C=Conc	entration, D=Depletion, RM	=Reduced N	– ————————————————————————————————————	 ains.					
Hydric Soil Ind			,				Indicators for F	Problematic Hydric Soil ³ :	
Histoso			Polyvalue Below 149B)	Surface (S8) (LRR R	, MLRA		ck (A10) (LRR K, L, MLRA 149B)	
Histic E	pipedon (A2)		Thin Dark Surface (S9) (LRR R, MLRA 149			149B)	Coast Prairie Redox (A16)(LRR K, L, R)		
Black H	istic (A3)		Loamy Mucky Mineral (F1) (LRR K, L))	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
☐ Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)				Dark Surface (S7) (LRR K, M)		
Stratifie	ed Layers (A5)		Depleted Matrix	(F3)			Polyvalue	Below Surface (S8) (LRR K, L)	
☐ Deplete	ed Below Dark Surface (A11)		Redox Dark Surface (F6)				Thin Dark Surface (S9) (LRR K, L)		
Thick Da	ark Surface (A12)		Depleted Dark Surface (F7)				Iron-Maganese Masses (F12) (LRR K, L, R)		
Sandy N	Mucky Mineral (S1)		Redox Depression	ns (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)	
Sandy G	Gleyed Matrix (S4)						Mesic Spo	dic (TA6) (MLRA 144A, 145, 149B)	
☐ Sandy R	Redox (S5)						Red Parer	nt Material (F21)	
Stripped	d Matrix (S6)						Very Shall	low Dark Surface (TF12)	
Dark Su	rface (S7) (LRR R, MLRA 149	9в)			<u>.</u>		Other (ex	plain in remarks)	
Restrictive Laye	er (if observed):								

Hydric Soil Present? Yes

Type: _

Remarks:

Depth (inches):

A dark layer of silt loam with distinct redox concentrations present.