WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci	Clearwate ty/County:	r	2015-07-01 Sampling Date:		
Enbridge Applicant/Owner:			Minnesota	, -	CLC5045a1W	
BCS/B	.FH		State:	Sampling Point:	·	
Investigator(s):		Sec	tion, Township, Range: _			
Landform (hillslope, terrace, etc.):_	Depression		Local Relief (concave, co	LC onvex, none):	0-2 Slope (%):	
LRR K Subregion (LRR or MLRA):		47 Latitude:	7.5152725	-95.3556875 ngitude: Dat	Minnesota State um:	
1272B Soil Map Unit Name:					on:	
•				•	Yes	
Are climatic/hydrologic conditions	•••	•		•		
Are Vegetation $\frac{\text{No}}{___}$, Soil $\frac{\text{No}}{___}$,	or Hydrology	o significantly distur	bed? Are "Normal Circu	mstances" present?		
Are Vegetation No No No , or	No Hydrology	_ naturally problemati	ic? (If needed, explain a	iny answers in Remarks)		
SUMMARY OF FINDINGS - Attac	h site map shov	ving sampling point lo	ocations, transects, impo	ortant features, etc.		
Hudrophytic Veretation Dresent?		Yes	la the Compled Area			
Hydrophytic Vegetation Present?		 Yes	Is the Sampled Area	Yes		
Hydric Soil Present?			within a Wetland?		-	
Wetland Hydrology Present?		Yes	If yes, optional Wetland	d Site ID:		
Remarks: (Explain alternative proc	edures here or i	n a separate report.)	l			
The wetland is a fresh wet meado			extends into the adjacer	nt roadside ditch. The wetland is o	dominated by reed ca	
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)	
Primary Indicators (minimum of on	e is required; ch	eck all that apply)		Surface Soil Cracks	(B6)	
Surface Water (A1) Water-Stail			• •		Drainage Patterns (B10)	
High Water Table (A2) Aquatic Fa				Moss Trim Lines (B1	· ,	
Saturation (A3)	_	Marl Deposits (B15)		•	Dry-Season Water Table (C2)	
. ,	Water Marks (B1) Hydroger		es on Living Roots (C3)		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)	
Sediment Deposits (B2)			d Iron (C4)		Stunted/Stressed Plants (D1)	
Algal Mat or Crust (B4)			on in Tilled Soils (C6)	V00		
Iron Deposits (B5)				•	Shallow Aquitard (D3)	
Inundation Visible on Aerial Image	ery (B7)	Other (Explain in Re	marks)	Microtopographic Re	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surfa	ce (B8)			yes FAC-Neutral Test (D5	i)	
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)				<u> </u>		
Describe Recorded Data (stream ga	nuge, monitoring	g well, aerial photos, p	revious inspections), if a	vailable:		
Domarks						
Remarks:	proceion and na	ssos the EAC Neutral t	rost			
The sample point is located in a de	pression and pa	sses the FAC-Neutral t	.est.			

VEGETATION - Use scientific names of plants.

Sampling Point: CLC5045a...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: $\frac{1}{}$ (A)
2				Total Number of Dominant
			- '	1
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				100 That Are OBL, FACW, or FAC:(A/B)
6.				Prevalence Index worksheet:
7	-			Total % Cover of: Multiply by:
	0	= Total Cover		OBL species 7.00 x 1 7
Sapling/Shrub Stratum (Plot Size: 15 ft)		_		FACW species 102.00 x 2 204
1. Salix bebbiana	2.00	No	FACW	FACU species 0.00 x 3 20
2		-	_	UPL species 0.00 x 4 0
3			_	Column Totals 114 (A) 231 (B)
4.				Prevalence Index = B/A = 2.0263157
5.		-	_	
			-	Hydrophytic Vegetation Indicators: Yes 1 - Rapid Test for Hydrophytic Vegetation
6				- Thapia reserving arophysic regestation
7			_	yes 2 - Dominance Test is > 50% yes 3 - Prevalence Index is $\leq 3.0^{1}$
List of the second of the seco	2	_ = Total Cover		
Herb Stratum (Plot Size: 5 ft) Phalaris arundinacea	00.00	W	546144	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Description	80.00	Yes	FACW	-
Z	20.00	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Corey yullaineidea	5.00	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless
Garage allita	5.00	No	OBL	disturbed or problematic.
5	2.00	No	OBL	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 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.
	112	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size:)				
1		_		_
2				Hydrophytic
3				Vegetation Present?
4				
	0	_ =Total Cover		
Remarks: (include photo numbers here or on a separate sheet	:.)			•
The sample area is dominated by reed canary grass.				

SOIL							Sampling F	Point: CLC5045a		
Profil	e Description: (Describe to the	depth n	eeded to document the	indicat	tor or co	nfirm th	e absence of indicators.)			
Depth Matrix		Redox I	eature							
(inche		%	Color (moist)	%	Type ¹	Loc ²	Texture Remar	ks		
0-11	10YR 2 2	_ 90	10YR 3 6	10	<u>C</u>	<u> M</u>	SIL			
11-24	10YR 5 2	_ 80	7.5YR 4 4	. 20	<u>C</u>	<u> M</u>	FSL			
			_	·						
	<u></u>		<u> </u>					_		
			_	·						
							· 			
							·			
			_		_					
					_					
¹ Type:	C=Concentration, D=Depletion, RM=	Reduced	Matrix, MS=Masked Sand Gra	ains.			² Location: Pl	L=Pore Lining, M=Matrix		
Hydric	Soil Indicators:						Indicators for Problematic Hydric Soil ³ :			
	Histosol (A1)		Polyvalue Below 149B)	Surface ((S8) (LRR R	, MLRA	2 cm Muck (A10) (LRR K, L, MLRA 149B)	1		
	Histic Epipedon (A2)		Thin Dark Surface	e (S9) (LR	R R, MLRA	A 149B)	Coast Prairie Redox (A16)(LRR K, L, R)			
	Black Histic (A3)	Loamy Mucky Mineral (F1		.) (LRR K, L	.)	5 cm Mucky Peat or Peat (S3) (LRR K, L,	R)			
			Loamy Gleyed M	Gleyed Matrix (F2)			Dark Surface (S7) (LRR K, M)			
	Stratified Layers (A5)	Depleted Matrix (F3)				Polyvalue Below Surface (S8) (LRR K, L)				
✓	Depleted Below Dark Surface (A11)	oleted Below Dark Surface (A11) Redox Dark Surface		ice (F6)		Thin Dark Surface (S9) (LRR K, L)				
	Thick Dark Surface (A12)	(A12) Depleted Dark Surface (F7)			7)		Iron-Maganese Masses (F12) (LRR K, L, F	Iron-Maganese Masses (F12) (LRR K, L, R)		
	Sandy Mucky Mineral (S1)		Redox Depressio	ns (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Sandy Gleyed Matrix (S4)						Mesic Spodic (TA6) (MLRA 144A, 145, 14	19B)		
	Sandy Redox (S5)						Red Parent Material (F21)			
	Stripped Matrix (S6)						Very Shallow Dark Surface (TF12)			
	Dark Surface (S7) (LRR R, MLRA 149	В)					Other (explain in remarks)			
Restri	ctive Layer (if observed):									
Ty	/pe:						Hydric Soil Present? Yes			

The observed profile consists of a dark silt loam with 10% prominent redox concentrations underlain by a depleted fine sandy loam. Soil meets indicators A11 and F6 - Depleted Below Dark Surface and Redox Dark Surface.

Depth (inches):

Remarks: