WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Clearwater City/County:		2015-07-08 Sampling Date:		
Applicant/Owner:			Minnesota State:	CL006e1W Sampling Point:		
ACM/I Investigator(s):	LEB	Sec	tion, Township, Range:			
	lepression			Conca convex, none): S	0-2 slope (%): Minnesota State	
Subregion (LRR or MLRA):		Latitude:	7.7150613815 Lo	-95.54611950 ongitude: Datun	n:	
Soil Map Unit Name:				NWI Classification	PEMCd :	
Are climatic/hydrologic conditions of	on the site typic	al for this time of year	? (if no, explain in Rem	arks):	⁄es	
Yes No Are Vegetation, Soil,	or Hydrology	o significantly distur	bed? Are "Normal Circ	Yes ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
Are Vegetation No No No , or	No					
SUMMARY OF FINDINGS - Attac	h site map show	wing sampling point lo	ocations, transects, imp	portant features, etc.		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Yes		Yes	Is the Sampled Area			
		Yes within a Wetland?		Yes		
		Vec				
Wetland Hydrology Present?			If yes, optional Wetland Site ID:			
Remarks: (Explain alternative proce				ation is dominated by reed canary gra		
HYDROLOGY Wetland Hydrology Indicators:				Secondary Indicators (minir	num of two required)	
Primary Indicators (minimum of on	e is required; ch	neck all that apply)		Surface Soil Cracks (B6	i)	
		Water-Stained Leaves (B9)		yes Drainage Patterns (B10)		
High Water Table (A2)	_	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)				Dry-Season Water Table (C2)		
Water Marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)		Oxidized Rhizospheres on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted/Stressed Plants (D1)		
		Recent Iron Reducti	on in Tilled Soils (C6)	yes Geomorphic Position (D2)		
Iron Deposits (B5) Thin I		Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7) Othe		Other (Explain in Re	marks)	Microtopographic Relie	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surfa	ce (B8)			yes FAC-Neutral 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)		Wetland Hydrology Present?	<u>Yes</u>	
(includes capillary fringe)						
Describe Recorded Data (stream ga	uge, monitorin	g well, aerial photos, p	revious inspections), if	available:		
Remarks:						
The wetland is in a low area that di	rains a field and	passes the FAC-Neutr	al test.			

			Sampling Point: CL006e1W	
Absolute	Dominant	Indicator	Dominance Test worksheet:	
% Cover	Species?	Status	Number of Dominant Species	
	_		That Are OBL, FACW, or FAC: 1 (A)	
		_	Total Number of Dominant	
			1 (P)	
		_	Species Across All Strata: (B)	
			Percent of Dominant Species 100	
			That Are OBL, FACW, or FAC:(A/B)	
			Prevalence Index worksheet:	
			Total % Cover of: Multiply by:	
	= Total Cover		OBL species <u>2.00</u> x 1 <u>2</u>	
			FACW species <u>85.00</u> x 2 <u>170</u>	
		_	FACU species 0.00 x 3 44	
	_		UPL species <u>0.00</u> x 4 <u>0</u>	
			Column Totals (A) (B)	
			Prevalence Index = B/A = $\frac{2.2040816}{1.000000000000000000000000000000000$	
			Hydrophytic Vegetation Indicators:	
			1 - Rapid Test for Hydrophytic Vegetation	
			yes 2 - Dominance Test is > 50%	
	= Total Cover		yes 3 - Prevalence Index is $\leq 3.0^1$	
	-		4 - Morphological Adaptations (Provide	
0.00	Yes	FACW	supporting data in Remarks or on a separate sheet)	
5.00	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
.00	No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata:	
	No			
		_		
			_ Seminario of Vegetation Strata.	
		-	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast	
			height (DBH), regardless of height.	
		-		
			Sapling/Shrub - Woody plants less than 3 in. DBH and greater that or equal to 3.28 ft (1 m) tall.	
			-	
	<u> </u>		Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
		-	-	
8	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
	_	_	-	
			Hydrophytic	
			Hydrophytic Vegetation Present?	
			Vegetation	
	=Total Cover		Vegetation	
	0.00 5.00 .00 .00 .00	= Total Cover = Total Cover No No No No No No No No No N	= Total Cover = Total Cover 10.00 Yes	

Sampling Point: CL006e1W SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) **Redox Features** Type¹ Loc² (inches) Color (moist) % Color (moist) Texture Remarks 0-2 10YR 2 1 100 sicl 2-12 10YR 3 1 70 10YR 4 6 10 С M/PL Redox in the matrix and pore linings sil 2-12 10YR 4 2 15 10YR 4 6 5 С Μ Mixed matrix. 10YR 2 1 12-16 100 peat with evidence of fire Ρ 10YR 3 1 16-24 90 10YR 4 6 10 sil 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 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16)(LRR K, L, R) Histic Epipedon (A2) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Black Histic (A3) Dark Surface (S7) (LRR K, M) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Iron-Maganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Sandy Redox (S5)

Stripped Matrix (S6)

Restrictive Layer (if observed):

Depth (inches):

Type:

Remarks:

Dark Surface (S7) (LRR R, MLRA 149B)

The soils are silty clay loam over silt loam with a layer of peat; the profile meets hydric indicator F6.

Very Shallow Dark Surface (TF12)

Other (explain in remarks)

Hydric Soil Present? Yes