WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Cle City/County:	arwater 	Sampling	2015-07-09 g Date:			
Applicant/Owner:		Minnesota State:	Sampling	CL004f1W			
JRT/KRG Investigator(s):		Section, Township, Range:					
Landform (hillslope, terrace, etc.):			CC convex, none):	Slope (%):			
Subregion (LRR or MLRA):	Latitu	47.7169007063 ude: Lo	-95.56036286 ngitude:	Minnesota State Datum:			
765 Soil Map Unit Name:			NWI Class	sification:			
A alimati - //dual diti di		of		Yes			
Are climatic/hydrologic conditions on th No No	No		Vos				
Are Vegetation, Soil, or Hy	No ydrology significantly	y disturbed? Are "Normal Circu	Yes umstances" present?				
No No No No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks)							
SUMMARY OF FINDINGS - Attach site	e map showing sampling r	point locations, transects, imp	ortant features, etc.				
	Yes						
Hydrophytic Vegetation Present?	Voc	Is the Sampled Area		Yes			
Hydric Soil Present?	Yes ——	within a Wetland?					
Wetland Hydrology Present?	Yes	If yes, optional Wetlan	d Site ID:				
Remarks: (Explain alternative procedure	es here or in a separate re	port.)					
The wetland is a small depression near		r <i>,</i>					
	,						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicato	ors (minimum of two required)			
Primary Indicators (minimum of one is r	equired; check all that app	oly)	Surface Soil	Cracks (B6)			
Surface Water (A1)	ned Leaves (B9)	Drainage Patterns (B10)					
High Water Table (A2)	Aquatic Fau	na (B13)	B13) Moss Trim Lines (B16)				
yes Saturation (A3)	Marl Deposi	its (B15)	Dry-Season Water				
Water Marks (B1)	Hydrogen S	ulfide Odor (C1)	e Odor (C1) Crayfish Bo				
Sediment Deposits (B2)	Oxidized Rh	izospheres on Living Roots (C3)	Saturation Vi	sible on Aerial Imagery (C9)			
Drift Deposits (B3) Presence of Re		Reduced Iron (C4)		Stunted/Stressed Plants (D1)			
Algal Mat or Crust (B4)	Algal Mat or Crust (B4) Recent Iron Rec		<u>yes</u> Geomorphic	es Geomorphic Position (D2)			
Iron Deposits (B5) Thin Muck Surfa		Surface (C7)	Shallow Aqui	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7) Other (Explain in F		ain in Remarks)		aphic Relief (D4)			
Sparsely Vegetated Concave Surface (B8	3)		yes FAC-Neutral	Test (D5)			
Field Observations:	Na						
Surface Water Present?		inches)					
Water Table Present?		inches)	l	.a Voc			
Saturation Present?	Yes Depth (inches) <u>8</u>	Wetland Hydrology Pre	sent? Yes			
(includes capillary fringe) Describe Recorded Data (stream gauge,	monitoring well perial ph	otos previous inspections) if	available:				
Describe Necorded Data (stream gauge,	monitoring wen, aeriai pri	otos, previous inspections,, ir a	avallable.				
Remarks:							
The wetland has saturated soil as well a	is the geomorphic position	and FAC-neutral test indicator	rs of hydrology.				

VEGETATION - Use scientific names of plants.

		Dominant	Indicator	Dominance Test worksheet:
1	% Cover	Species?	Status	Number of Dominant Species
2				That Are OBL, FACW, or FAC: 2(A)
				Total Number of Dominant
				2
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 25.00 x 1 25
Sapling/Shrub Stratum (Plot Size: 15 ft)		_		FACW species 80.00 x 2 160
1				FACU species 0.00 x 3 0
2.		_		UPL species 0.00 x 4 0
3.		-		Column Totals 105 (A) 185 (B)
				Prevalence Index = B/A = 1.7619047
4		_	_	
5		_	_	Hydrophytic Vegetation Indicators:
6				
7		_		yes 2 - Dominance Test is > 50%
	0	_ = Total Cover		yes 3 - Prevalence Index is $\le 3.0^{1}$
Herb Stratum (Plot Size: 5 ft) Phalaris arundinacea				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Described in	40.00	Yes	FACW	_
Z	35.00	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Company to the contract of the	20.00	No No	OBL	Indicators of hydric soil and wetland hydrology must be present, unless
Canada de la companya della companya della companya de la companya de la companya della companya	5.00	No No	FACW	disturbed or problematic.
5. Carex vulpinoidea	5.00	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		_		Height (DDH), regardless of height.
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than
10			_	or equal to 3.28 ft (1 m) tall.
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and
12				woody plants less than 3.28 ft tall.
	105	_ = Total Cover	<u> </u>	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30 ft				
, ,			<u> </u>	Hydrophytic
1				Vegetation
1				=
1				Present?
1	0	=Total Cover		=
1	0	=Total Cover		=

Sampling Point: CL004f1W

SOIL									Sampling Point: CL004f1W
Profile De	escription: (Describe to the	depth n	eeded to	document the	e indicat	or or co	nfirm th	ne absence of in	dicators.)
Depth (inches) 0-18	Matrix Color (moist) 10YR 2 1	% 100	Co	Redox lor (moist)	Features %	Type ¹	Loc ²	Texture sic	Remarks
18-24	10YR 5 2	- 95	5GY 4	1	 5	D	M	sc	
		- - -	- - -		- - -				
¹ Type: C=C	Concentration, D=Depletion, RM=	 Reduced I	– – – – – – – – Matrix, MS	=Masked Sand Gi	rains.				² Location: PL=Pore Lining, M=Matrix
Hydric Soil	Indicators:							Indicators for	Problematic Hydric Soil ³ :
☐ Hist	cosol (A1)			Polyvalue Below 149B)	Surface (S8) (LRR R	, MLRA	2 cm Mu	ick (A10) (LRR K, L, MLRA 149B)
☐ Hist	cic Epipedon (A2)			Thin Dark Surfac	e (S9) (LR	R R, MLRA	149B)	Coast Pr	airie Redox (A16)(LRR K, L, R)
☐ Blac	ck Histic (A3)			Loamy Mucky M	lineral (F1) (LRR K, L)	5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
☐ Hyd	Irogen Sulfide (A4)			Loamy Gleyed M	1atrix (F2)			Dark Sur	face (S7) (LRR K, M)
Stra	atified Layers (A5)			Depleted Matrix	(F3)			Polyvalu	e Below Surface (S8) (LRR K, L)
☐ Dep	oleted Below Dark Surface (A11)			Redox Dark Surf	ace (F6)			Thin Dark	k Surface (S9) (LRR K, L)
✓ Thio	ck Dark Surface (A12)			Depleted Dark S	urface (F7	')		☐ Iron-Mag	ganese Masses (F12) (LRR K, L, R)
San	dy Mucky Mineral (S1)			Redox Depression	ons (F8)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
San	dy Gleyed Matrix (S4)							Mesic Sp	odic (TA6) (MLRA 144A, 145, 149B)
San	dy Redox (S5)							Red Pare	ent Material (F21)
☐ Stri	pped Matrix (S6)							☐ Very Sha	allow Dark Surface (TF12)
☐ Dar	k Surface (S7) (LRR R, MLRA 149B	3)				-		Other (e	xplain in remarks)
Restrictive Type:	Layer (if observed):								. Vos

Depth (inches): __

The wetland has a thick dark layer above a depleted layer, which meets hydric indicator A12.

Remarks:

Hydric Soil Present? Yes