

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: DFSL

RQ: 2024-07-29-28

Project: LS JK South Lakes

2024-08-05-41

Algae Bloom

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 07/02/24

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	K Halbert	7/31/24	740	22.2	762.1	8.7	8.75	100.3	—	1.01	(P) F	(C) F
ICV	K Halbert	7/31/24	755	22.1	762.1	8.7	8.75	100.2	—	1.01	(P) F	(C) F
CCV	J Purnish	7/31/24	1545	24.8	761.2	8.3	8.20	99.0	—	—	(P) F	(C) F
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	K Halbert	7/31/24	757	240618A	06/26/24	1000	1000	(P) F	(C) F
ICV	K Halbert	7/31/24	758	230612A	06/26/24	100	99.8	(P) F	(C) F
CCV	J Purnish	7/31/24	1547	231103C	11/20/24	50000	49136	(P) F	(C) F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	K Halbert	7/31/24	800	43110047	11/31/25	7.01	22.6	7.01	-57.3	(P) F	(C) F
Calibr.	K Halbert	7/31/24	803	44040045	4/8/26	4.00	22.7	4.00	138.5	(P) F	(C) F
Calibr.	K Halbert	7/31/24	805	44020286	2/27/26	10.02	22.8	10.02	-265.5	(P) F	(C) F
ICV	K Halbert	7/31/24	810	44040045	4/8/26	4.00	22.7	4.00	138.2	(P) F	(C) F
CCV	J Purnish	7/31/24	1550	44020286	2/27/26	10.00	23.2	9.95	-203.6	(P) F	(C) F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 168.2, slope from 4 to 7 175.8 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 07/02/24

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	K Halbert	07/31/24	812	0.000	0.000	(P) F	(C) F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:



Cyanobacteria Bloom Response Field Data Sheet (2024-07-22 v1)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

Meter Passed

End of Day CCV

Yes / No

RQ - 2024-08-05-41		Collected By:		Katherine Halbert, Jeremy Parrish								
Customer:	NE-DIST		Field Report Prepared By:		Jeremy Parrish							
Project ID:	BLOOM_RESP		Sampling Agency:		NEROC							
Location: Lake Disston - Boat Ramp					Comments: Some particulates in water							
Field ID / WIN ID: NEHAB0121					Coordinates:		29.29788, -81.36974					
WBID:					Collection Equip:		WaterBottle					
WIN Secondary Resource Type: Lake					High Tide Time:		Low Tide Time:					
Matrix:	Fresh		Grab		Tide:		☐ Rising ☐ Falling ☐ Slack ☒ N/A					
Water Quality		Meter ID:		Desi		Secchi ID:						
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)		
07/31/2024	10:40	5.96	78.88	30	6.16	0.3	0.4	0.4	89.7	0.04		
Bloom Observations												
Algal Bloom Observed? ☒ Yes ☐ No												
Water Clarity		☒ Clear		☐ Slightly Turbid		☐ Turbid		☐ Opaque				
Bloom Color		☒ Green		☐ Red		☐ Brown		☐ Other:				
Algae Type		☒ Planktonic		☐ Filamentous		☐ Other:						
Algae Accumulation		☐ Mat		☒ Specks		☐ Scum		☐ Glob				
Algae Distribution		☐ Surface-Entire		☐ Surf-Localized		☐ Surf-Windblown		☒ Suspended		☐ Benthic ☐ Epiphytic		
Parameter Suite		Parameter Methods				Preservation		pH Check	#Bottles Sent to Lab	Bottle Group		
Algae (PT-50mL)		☐ ALGAL-ID ☒ BLOOM-ID				☒ Ice			1	A		
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	B		
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B		
Physical/Aggregate		☒ W-COLOR				☒ Ice			1	B		
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B		
		Acid Lot:		Sa3340020		Exp:		12/11/2024				
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um	Filter Lot #	0000175533		☒ Ice	1	B		
				Syringe Lot #								
Quantitative Algae		☐ DTY-QN-C / ☐ PKD-QN-C				☐ Ice		☐ Lugols				
Relinquished By:		Date/Time		Number of Coolers Shipped			Received By:		Date/Time			
Jeremy Parrish		07/31/2024 16:00		1								

Cyanobacteria Bloom Response Data Handling Addendum

RQ-	2024-08-05-41	Date	07/31/2024
Field ID	NEHAB0121	Time	10:40
Location	Lake Disston-Boat Ramp		

SECTION FOR FDEP USE

LIMS EVENT ID:NE-DIST-08-01-01WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: DB 08/13/2024QC Station ID, Field Parameters In LIMS DMT:

(Initials/Date)(Initials/Date)

Scan/Save Field Sheets7/31/2024 KVMigrate Data to WIN:Verify Data In WIN:

(Initials/Date)(Initials/Date)(Initials/Date)