

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: Stitch

RQ: 2023-05-22-64

Project: Drs Lake Algae

- 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 5/23/2023

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	7-24-23	855	21.0	763.5	9.0	—	100.5	—	1.066	(P) / F	(L) / F
ICV	K Halbert	7-24-23	858	21.0	763.4	9.0	8.97	100.5	—	1.066	(P) / F	(L) / F
CCV	K Halbert	7-24-23	1550	21.9	762.9	8.8	8.75	100.1	—	1.066	(P) / F	(L) / 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 μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	K Halbert	7-24-23	900	230131B	02/2024	1000	1000	(P) / F	(L) / F
ICV	K Halbert	7-24-23	902	230131A	02/2024	100	99.7	(P) / F	(L) / F
CCV	K Halbert	7-24-23	1553	2301310	02/2024	15000	15076	(P) / F	(L) / 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	7-24-23	911	M241-15	9/1/24	7.02	21.3	7.02	-49.5	(P) / F	(L) / F
Calibr.	K Halbert	7-24-23	915	M201-22	8/10/24	4.00	21.2	4.00	124.7	(P) / F	(L) / F
Calibr.	K Halbert	7-24-23	917	M203-05	7/27/24	10.04	21.2	10.04	-219.8	(P) / F	(L) / F
ICV	K Halbert	7-24-23	920	M221-22	8/10/24	4.00	21.2	3.96	126.5	(P) / F	(L) / F
CCV	K Halbert	7-24-23	1555	M203-05	7/27/24	10.04	21.2	10.02	-219.5	(P) / F	(L) / 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 10 170.3, slope from 4 to 7 174.2 (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: 5/30/2023

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	7-24-23	923	0.000	0.003	(P) / F	(L) / 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 (2023-06-12 v1)

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

RQ - 2023-05-22-64				Collected By:		Katrin Villinger, Katherine Halbert					
Customer:		NE-DIST		Field Report Prepared By:		Katherine Halbert					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Doctors Lake - Pace Island dock				Comments: ^ Odor present at site							
Field ID: NEHAB0055				Coordinates:		30.13571, -81.71956					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0055				High Tide Time:		16:47		Low Tide Time:		10:23	
Matrix:		Fresh		Grab		Tide:		Rising ☐ Falling ☐ Slack ☐ N/A ☐			
Water Quality											
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)	
07/24/2023	11:00	95.9	7.27	29.2	7.44	0.1	0.21	0.21	4054	0.13	
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	C	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	C	
Physical/Aggregate		☒ W-COLOR				☒ Ice			1	C	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	C	
		Acid Lot:		SA3013020		Exp:		01/25/2024			
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter			☒ Ice		1	C	
		Filter Lot #			0000175533						
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped			Received By:		Date/Time		
Katherine Halbert		07/24/2023 16:30		1							



Cyanobacteria Bloom Response Field Data Sheet (2023-06-12 v1)

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RQ - 2023-05-22-64				Collected By:		Katrin Villinger, Katherine Halbert					
Customer:		NE-DIST		Field Report Prepared By:		Katherine Halbert					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Doctors Lake - 1915 Salt Myrtle Lane				Comments: Wind creating natural foam by shoreline. Odor present a sample site location.							
Field ID: NEHAB0108				Coordinates:		30.12623, -81.71659					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0108				High Tide Time:		16:47		Low Tide Time:		10:23	
Matrix:		Marine		Grab		Tide:		☒ Rising ☐ Falling ☐ Slack ☐ N/A			
Water Quality											
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)	
07/24/2023	11:55	72.2	5.3	30.7	7.07	0.11	0.23	0.1	5028	2.67	
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	C	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	C	
Physical/Aggregate		☒ W-COLOR				☒ Ice			1	C	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	C	
		Acid Lot:		SA3013020		Exp:		01/25/2024			
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter			☒ Ice		1	C	
		Filter Lot #			0000175533						
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped			Received By:		Date/Time		
Katherine Halbert		07/24/2023 16:30		1							