



Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 v1)

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

RQ - 2023-02-13-15				Collected By:		Katrin Villinger, Katherine Halbert					
Customer:		WQMP		Field Report Prepared By:		Katherine Halbert					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: George's Lake @ Boat Ramp				Comments: Wind pushing algae toward boat ramp area. Algae was extremely thick and unavoidable when sampling. PO4 bottle was not able to be filtered, sent unfiltered so lab can decide if sample is able to be filtered/ ran or not.							
Field ID: NEHAB0099				Coordinates:		29.80237, -81.84553					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID:NEHAB0099				High Tide Time:				Low Tide Time:			
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)	
02/21/2023	10:35	71.6	6.55	19.7	6.24	0.23	0.46	0	58	0.03	
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	
Algal ID (PT-50mL)		☐ ALGAL-ID				☐ Ice					
Bloom ID (PT-50mL)		☒ 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	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B	
		Acid Lot:		SA2299040		Exp:		11/04/23			
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45µm		☒ Ice			1	B	
		Filter Lot #		See comment							
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
Katherine Halbert		02/21/2023 16:30		1							



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Customer:		WQMP		Field Report Prepared By:		Katherine Halbert				
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC				
Location: George's Lake @ HAB Center				Comments: Wind blowing from West to East.						
Field ID: NEHAB0098				Coordinates:		29.79425, -81.84871				
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle				
WIN ID:NEHAB0098				High Tide Time:		Low Tide Time:				
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)
02/21/2023	11:40	98.4	9.12	19	6.13	0.3	4.42	0.4	53.5	0.02
	11:41	97.1	9.03	18.9	6.3	2			53.6	0.02
	11:44	94.7	8.87	18.5	6.14	3.92			53.6	0.02
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
Algal ID (PT-50mL)		☐ ALGAL-ID				☐ Ice				
Bloom ID (PT-50mL)		☒ 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
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B
		Acid Lot:		SA2299040		Exp:		11/04/23		
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	B
				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		02/21/2023 16:30		1						

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:

2023-02-13-15

Project:

Algae Resample

George's Lake

- 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

2/15/23

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	2-21-23	741	21.0	761.0	8.9	—	100.1	—	1.073	(P/F)	(L/F)
ICV	K. Halbert	2-21-23	743	21.0	761.1	8.9	8.94	100.2	—	1.073	(P/F)	(L/F)
CCV	K. Halbert	2-21-23	1451	21.3	759.4	8.9	8.88	100.2	—	1.073	(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	2-21-23	750	221028A	11/2023	1000	1000	(P/F)	(L/F)
ICV	K. Halbert	2-21-23	800	220719B	07/2023	100	99.9	(P/F)	(L/F)
CCV	K. Halbert	2-21-23	1454	221028A	11/2023	1000	1000	(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	2-21-23	802	M118-15	5/2/24	7.02	21.2	7.02	-42.0	(P/F)	(L/F)
Calibr.	K. Halbert	2-21-23	804	M188-01	7/11/24	4.00	21.3	4.00	133.1	(P/F)	(L/F)
Calibr.	K. Halbert	2-21-23	807	M334-14	11/29/24	10.04	21.2	10.04	-212.8	(P/F)	(L/F)
ICV	K. Halbert	2-21-23	810	M188-01	7/11/24	4.00	21.3	3.99	133.4	(P/F)	(L/F)
CCV	K. Halbert	2-21-23	1456	M11815	5/2/24	7.01	22.3	7.08	45.4	(P/F)	(L/F)
CCV								KH 2-21-23	43.3	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 10 170.8 , slope from 4 to 7 175.1 (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: 2/9/23

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	221-23	808	0.000	0.000	(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: