Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 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: GEORGES LAKE AT BOAT RAMP		**Comments:** 250mL plastic bottle included for a **W-COLOR** sample (bottle group B). Survey has not yet been updated to include new analyte. Total of 6 bottles.	
Field ID: NEHAB0099		**Coordinates:**	29.80223, -81.84554
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)
06/01/2023	10:35	61.7	5.05	25.5	5.87	0.3	0.78	0.5	62.5	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: SA2229010	Exp: 08/30/23			
Filtered Nutrients (P125mL)	■ W-PO4-F	■ Field Filtered 0.45um Filter; Filter Lot # 0000175533	■ Ice	1	B
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice ☐ Lugols			

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
Katherine Halbert	06/01/2023 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: Bruce RQ- 2023-05-22-64 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 5/23/23

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	~~6/1/23~~ 6/1/23	743	22.4	758.9	8.7	–	99.9	–	1.027	(P)/ F	(L)/ F
ICV	K. Halbert	6/1/23	755	22.2	759.0	8.7	8.72	100.0	–	1.027	(P)/ F	(L)/ F
CCV	K. Halbert	6/1/23	1434	23.0	759.2	8.6	8.60	100.2	–	1.027	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	K. Halbert	6/1/23	756	2301318	02/2024	1000	1000	(P)/ F	(L)/ F
ICV	K. Halbert	6/1/23	759	220719B	07/2023	100	100.5	(P)/ F	(L)/ F
CCV	K. Halbert	6/1/23	1436	220719B	07/2023	100	100.3	(P)/ F	(L)/ F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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	6/1/23	805	M241-15	9/1/24	7.01	22.7	7.01	-18.8	(P)/ F	(L)/ F
Calibr.	K. Halbert	6/1/23	808	M346-07	12/11/24	4.00	22.7	4.00	157.7	(P)/ F	(L)/ F
Calibr.	K. Halbert	6/1/23	810	M203-05	7/27/24	10.03	22.7	10.03	-188.7	(P)/ F	(L)/ F
ICV	K. Halbert	6/1/23	812	M346-07	12/11/24	4.00	22.7	3.97	159.1	(P)/ F	(L)/ F
CCV	K. Halbert	6/1/23	1438	M241-15	9/1/24	7.01	23.0	7.06	-19.0	(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 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 169.9, slope from 4 to 7 176.6 (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: 5/30/23
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	6/1/23	814	0.000	0.000	(P)/ F	(L)/ F

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

COMMENTS: