-05-23-47

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- ~~2022-04-11-48~~ 2022-05-23-47 Project: Algae Response

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 5/2/22

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.	Katrin Villinger	5/23/22	858	21.1	764.2	8.9	—	100.5	—	1.024	(P) / F	(L) F
ICV		↓	900	21.1	764.5	8.9	8.44	100.6	—	1.024	(P) / F	(L) F
CCV	Brian Davis	↓	1656	23.8	761.6	8.6	8.48	100.4	/	1.024	(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. Villinger	5/23/22	902	220225A	3/23	1000	1000	(P) / F	(L) F
ICV		↓	906	210917A	9/22	100	100.0	(P) F	(L) F
CCV	Brian Davis	↓	1658	211122A	12/22	15,000	15,034	(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. Villinger	5/23/22	907	4203867	2/24	7.02	20.8	7.02	-17.9	(P) / F	(L) F
Calibr.		↓	911	2201D88	1/24	4.00	20.8	4.00	161.1	(P) / F	(L) F
Calibr.			913	2202A63	7/23	10.04	20.7	10.04	-186.4	(P) / F	(L) F
ICV			917	2201D88	1/24	4.00	20.8	3.97	161.1	(P) / F	(L) / F
CCV	Brian Davis	↓	1659	2202A63	7/23	10.03	22.0	10.05	-187.6	(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 10 168.5, slope from 4 to 7 179.0 (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: 5/3/22
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. Villinger	5/23/22	919	0.00	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:

Cyanobacteria Bloom Response Field Data Sheet (2022-05-20 v1)

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

RQ - 2022-05-23-47		**Collected By:**	Katrin Villinger, Brian Davis
Customer:	WQAP	**Field Report Prepared By:**	Brian Davis
Project ID:	BLOOM_RESP	**Sampling Agency:**	NEROC
Location: Rod Res Dam East		**Comments:** Stumpy, warm, water is clear, partly cloudy W-SAXTN-AA excluded from sample at site. Not required for bloom response project. Do not run for this site.	
Field ID: NEHAB0078		**Coordinates:**	29.51077, -81.80356
WIN Secondary Resource Type: Lake		**Collection Equip:**	WaterBottle
WIN ID: NEHAB0078		**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)
05/23/2022	12:40	114.5	8.97	28	8.38	0.3	2.4	1.3	455.1	0.22
	12:42	93.3	7.41	27.2	8.11	1.9			454.6	0.22
	12:45	91.7	7.27	27.1	8.09	2			454.4	0.22

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 ID (PT-50mL)	☐ ALGAE-ID	☐ Ice			
Bloom ID (PT-50mL)	■ BLOOM-ID	■ Ice		1	A
Chlorophyll (BP-1L)	■ CHLSUITE-W	■ Ice		1	B
Toxins (BG-WD250)	■ 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: SA1308030	Exp: 12/01/22			
Filtered Nutrients (P125mL)	■ W-PO4-F	■ Field Filtered 0.45um Filter; Filter Lot # R1EB01329	■ 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
Brian Davis	05/23/2022 16:00	1		

Cyanobacteria Bloom Response Field Data Sheet (2022-05-20 v1)

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

RQ - 2022-05-23-47		**Collected By:**	Brian Davis, Katrin Villinger
Customer:	WQAP	**Field Report Prepared By:**	Brian Davis
Project ID:	BLOOM_RESP	**Sampling Agency:**	NEROC
Location: Dr's Lake end of Lawrence Rd		**Comments:** Sunny, partly cloudy	
Field ID: NEHAB0073		**Coordinates:**	30.12953, -81.75179
WIN Secondary Resource Type: Lake		**Collection Equip:**	WaterBottle
WIN ID: NEHAB0073		**High Tide Time:**	1956 **Low Tide Time:** 1414
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)
05/23/2022	15:50	126.4	9.16	30.8	8.29	0.3	0.6	0.5	9808	5.47

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 ID (PT-50mL)	☐ ALGAE-ID	☐ Ice			
Bloom ID (PT-50mL)	■ BLOOM-ID	■ Ice		1	A
Chlorophyll (BP-1L)	■ CHLSUITE-W	■ Ice		1	B
Toxins (BG-WD250)	■ 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: SA1308030	Exp: 12/01/22			
Filtered Nutrients (P125mL)	■ W-PO4-F	■ Field Filtered 0.45um Filter; Filter Lot # R1EB01329	■ 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
Brian Davis	05/23/2022 16:00	1		

Cyanobacteria Bloom Response Field Data Sheet (2022-05-20 v1)

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

RQ - 2022-05-23-47		**Collected By:**	Brian Davis, Katrin Villinger
Customer:	WQAP	**Field Report Prepared By:**	Brian Davis
Project ID:	BLOOM_RESP	**Sampling Agency:**	NEROC

Location: Swimming Pen Cr @ Whitey's Fish Camp

Comments: Partly cloudy

Field ID: NEHAB0074		**Coordinates:**	30.10100, -81.74641
WIN Secondary Resource Type: River/Stream		**Collection Equip:**	WaterBottle
WIN ID: NEHAB0074		**High Tide Time:** 1956	**Low Tide Time:** 1414
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)
05/23/2022	15:15	95.1	7.08	28.6	7.23	0.25	0.905	0.7	9646	5.37

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 ID (PT-50mL)	☐ ALGAE-ID	☐ Ice			
Bloom ID (PT-50mL)	■ BLOOM-ID	■ Ice		1	B
Chlorophyll (BP-1L)	■ CHLSUITE-W	■ Ice		1	A
Toxins (BG-WD250)	■ W-MCYST-AA / W-SAXTN-MS ☐ OV-TOXN	■ Ice		1	A
Preserved Nutrients (500mL HDPE)	■ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	■ Ice ■ H2SO4	■ <2	1	A
	Acid Lot: SA1308030 Exp: 12/1/22				
Filtered Nutrients (P125mL)	■ W-PO4-F ■ Field Filtered 0.45um Filter Filter Lot # R1EB01329	■ Ice		1	A
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice ☐ Lugols			

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
Katrin Villinger	05/23/2022 16:30	1		