

Login Preservation Equipment

Lot # & Exp: Date

Infrared Thermometer ID:	IR TEMP GUN #2 exp:10/28/21
pH Test Strips 0 – 6	
pH Paper 0 – 3	
pH Paper 0 – 13	219019 exp: 7/1/22
Chlorine Test Strips	0129 exp: 03/2023

Additional Comments:

ENCORE SAMPLES

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received?

Yes _____

Init: _____

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection?

Yes _____

No _____

Yes _____

No _____

If no, were samples shipped on dry ice?

If S-VOC-MS samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check(W-HG-AF;W-HG-AF-F):

Samples preserved within 48 hours?

Yes _____

No _____

Date and time samples preserved: _____

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: 2021-09-27-51

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 8/16/21

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.	Brian V.	10/7/21	822	22.0	7638	8.8	—	100.5	—	1.03	P/F	L/F
ICV			823	21.9	7639	8.8	—	100.4	—	1.03	P/F	L/F
CCV	Jeremy P.	10/7/21	1230	22.6	764	8.7	8.66	100.2	—	—	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Brian V.	10/7/21	802	210426B	5/22	1000	1000	P/F	L/F
ICV			804	210426A	5/22	1413	1416	P/F	L/F
CCV	Jeremy P.	10/7/21	1231	210426A	5/22	100	102	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.	Brian Davis	10/7/21	810	2107F56	7/23	7.01	22.1	7.01	-28.8	P/F	L/F
Calibr.			813	2107G40	7/23	4.00	22.2	4.00	142.8	P/F	L/F
Calibr.			816	2107A04	12/22	10.03	22.0	10.04	-202.4	P/F	L/F
ICV			819	2107F56	7/23	7.01	22.0	7.04	-28.7	P/F	L/F
CCV	Jeremy P.	10/7/21	1233	2107A04	12/22	10.00	20.7	10.10	-207	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 10 173.6 slope from 4 to 7 178.6 (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: 8/18/21

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	Brian Davis	10/7/21	826	0.00	0.00	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

RQ-2021- 07-27-51	Collected By: J Parnish B Davis
Customer: 21FLA	Field Report Prepared By: J Parnish
Project ID: BLOOM_RESP	Sampling Agency: FDEP

Comments:

WIN ID/Field ID: 
NEHAB0058

Doctor's Lake @ White Owl Rd

Matrix: Fresh	☒ Grab	Collection Equipment: Ble, Bottle
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A	Coordinates: 30.1151, -81.74686	High Tide Time: 1201 Low Tide Time: 540

Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
10/7/21	950	4.33	54.5	26.8	7.56	0.3	1128	0.56	NOB	0.6
									0.6	21

Bloom Observations					
Algal Bloom Observed?	☒ Yes	☐ No			
Water Surface	☐ Clear	☐ Scum	☐ Globbs	☒ Slick	
Water Clarity	☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque	
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other:	
Algae Distribution	☒ Suspended in water column	☒ On surface	☐ Other:		
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	Other:

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Bloom ID (PT-50ML)	☒ BLOOM-ID	☒ Ice		1	A
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	B
Toxins (BG-WD250)	☒ W-MCYST-AA	☒ Ice		1	B
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☒ H2SO4	☒ <2	1	B
Filtered Nutrients (P125mL)	☒ W-PO4-F ☒ Field Filtered 0.45um Filter	☐ Ice	☐ <2	1	B
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice ☐ Lugols			

Relinquished By: Ham	Date/Time: 10/7/21 1:00	Number of Coolers Shipped: 2	Received By: IM	Date/Time: 10/8/21 9:30
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Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-	09-27-51	Collected By:	JPamsh Bravis							
Customer	ZIFLA	Field Report Prepared By:	JPamsh							
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
WIN ID/Field ID:		Comments:								
 NEHAB0057		Doctor's Lake @ Mill Cove								
Matrix:		Collection Equipment:	Pole, Bottle							
Tide:		Coordinates:	30.12326, -81.72753							
☒ Rising ☐ Falling ☐ Slack ☐ N/A		High Tide Time:	1201							
		Low Tide Time:	540							
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
10/7/21	1010	6.10	77.7	27.6	7.69	0.3	1112	0.55	0.8 V0B	0.8
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface	☐ Clear	☐ Scum	☐ Globs	☒ Slick						
Water Clarity	☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque						
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other: _____						
Algae Distribution	☒ Suspended in water column	☒ On surface	☐ Other: _____							
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	Other: _____					
Parameter Suite	Parameter Methods		Preservation	pH Check	#Bottles Sent to Lab	Bottle Group				
Bloom ID (PT-50ML)	☒ BLOOM-ID		☒ Ice		1	A				
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice		1	B				
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice		1	B				
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice ☒ H2SO4	☒ <2	1	B				
Filtered Nutrients (P125mL)	Lot: SA1105060		Exp: 4/30/22	☐ <2						
Quantitative Algae	☒ W-PO4-F		☒ Field Filtered 0.45um Filter	☒ Ice	1	B				
	☐ DTY-QN-C / PKD-QN-C		☐ Ice	☐ Lugols						
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
JPam	10/7/21 1600	2		IM	10/8/21 9:30					

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 09-27-S1	Collected By: J. Plamsh B. Davis									
Customer: ZIFLA	Field Report Prepared By: J. Plamsh									
Project ID: BLOOM_RESP	Sampling Agency: FDEP									
Field ID:	Comments:									
WIN ID/Field ID:  NEHAB0055										
Pace Island Dock	Collection Equipment: Pole Bottle									
Matrix: SW Fresh (Grab)	Coordinates: 30.13626, -81.7206									
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time: 1201 Low Tide Time: 540									
Water Quality										
Date	Time	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
10/7/21	1045	4.67	58.7	27.2	7.27	0.5	1128	0.56	0.8	1.0
Bloom Observations										
Algal Bloom Observed?	☒ Yes ☐ No									
Water Surface	☐ Clear ☐ Scum	☐ Globs	☒ Slick diffuse							
Water Clarity	☐ Clear ☒ Slightly Turbid	☐ Turbid	☐ Opaque							
Bloom Color	☒ Green ☐ Red	☐ Brown	☐ Other: _____							
Algae Distribution	☒ Suspended in water column	☒ On surface	☐ Other: _____							
Water Odors	☒ Normal ☐ Sewage	☐ Petroleum	☐ Chemical Other: _____							
Parameter Suite	Parameter Methods		Preservation	pH Check	#Bottles Sent to Lab	Bottle Group				
Bloom ID (PT-50ML)	☒ BLOOM-ID		☒ Ice		1	A				
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice		1	B				
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice		1	B				
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice ☒ H2SO4	☒ <2	1	B				
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45um Filter	☒ 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						
J. Plamsh	10/7/21 1600	2	IM	10/8/21 9:30						

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-	09-27-51	Collected By:	J. Pansh / B Davis							
Customer	ZIFLA	Field Report Prepared By:	J. Pansh							
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
WIN ID/Field ID:		Comments:								
 NEHAB0030 LSJR @ N Ridge Dr		Sampled end of dock								
Matrix:		Collection Equipment:	Bottle							
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A		Coordinates:	30.09179 -81.69259							
		High Tide Time:	1201	Low Tide Time: 540						
Water Quality										
Date	Time ☐ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPTH)	Secchi Disk (m)	Total Depth (m)
10/7/21	1120	5.75	74.2	28.3	7.45	0.3	816	0.40	0.6	1.5
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface	☒ Clear	☐ Scum	☐ Globbs	☒ Slick Very diffuse						
Water Clarity	☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque						
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other: _____						
Algae Distribution	☒ Suspended in water column			☒ On surface		☐ Other: _____				
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical		Other: _____				
Parameter Suite	Parameter Methods		Preservation	pH Check	#Bottles Sent to Lab	Bottle Group				
Bloom ID (PT-50ML)	☒ BLOOM-ID		☒ Ice		1	A				
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice		1	B				
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice		1	B				
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice ☒ H2SO4	☒ <2	1	B				
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45um Filter	☒ 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					
J. Pansh	10/7/21 1600	2		IM	10/8/21 9:30					

Date of Request: 29-SEP-2021
 Created By: PARRISH_J On: 29-SEP-2021
 Modified By: JASROTIA_P On: 29-SEP-2021
 Customer: WQAP
 Project: BLOOM-RESP
 Division: Division of Environmental Assessment and Restoration
 District:
 Event Description: Algal Bloom Response- NEROC

Send Coolers To:

Phone: 904-256-1700
 8800 Baymeadows Way West

 Jacksonville, FL 32256
 Attn: Jeremy Parrish
 Cooler Ship EMail: Jeremy.M.Parrish@dep.state.fl.us

Priority: 1
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 29-SEP-2021
 Biology Request Reviewed By: JASROTIA_P On: 29-SEP-2021
 Sampling Kit Required: YES Ship on: 30-SEP-2021
 Sampling Kit Shipped: YES On: 30-SEP-2021
 Sampling Kit Packed By: KLUG_K
 Preservatives Needed: NO
 Date to Receive Samples: 29-SEP-2021
 Logged In By: KLUG_K On: 07-OCT-2021

Send Final Report To:

8800 Baymeadows Way West

 Jacksonville, FL 32256
 Attn: Jeremy Parrish
 Report Notification EMail:
 Jeremy.M.Parrish@dep.state.fl.us; Brian.G.Davis@floridadep.gov
 ;Amelia.Rankin@dep.state.fl.us

Comments: Unless peak algal bloom season, may analyze toxin after consultation with Biology's Taxonomy Manager.

Bottle Group A - Priority 1
 For algal dominant taxon.

Bottle Group B - Priority 1
 For toxin testing, nutrients, and chlorophyll

There are multiple bottles per Group in case multiple sample targets or sample locations are needed. Samplers use best professional judgement to decide which samples are appropriate to collect for a particular response. All sets of bottles do not have to be filled at one time.

Please print two copies of algal job labels at login.

Bottle Group A (Biological) With 8 Samples:

Bottle Type: PT-50ML	Number of Bottles: 8	Preserved With: ICE
BLOOM-ID	Template: DEFAULT	(SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (Water) With 8 Samples:

Bottle Type: BP-1L	Number of Bottles: 8	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: BG-250ML-WDMTH	Number of Bottles: 8	Preserved With: ICE
W-MCYST-AA	Template:	(EPA 8321B) Microcystins in water matrices by HPLC/MS/MS
Bottle Type: P-500ML	Number of Bottles: 8	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Bottle Type: P-125ML	Number of Bottles: 8	Preserved With: FILTER-ICE
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.