

RQ-2021-10-25-41

Login Checklist

Login Station ID: #2

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 11/19/2021 9:25

*Cooler Temperature	Samples Frozen?	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Waybill Tracking #	
		YES	HNO ₃		Formalin	Present?		*Intact?		
						Yes	No	Yes		No
1.9				20					52255540 8320	

COOLER CHECK

*All samples received on ice unless otherwise noted. HNO₃ and Formalin preserved samples do NOT have a temperature requirement.

- If the temperature of a cooler exceeds 6.0 °C (above 10.0 °C for W-1-4-DIOX and microbiology) or received without ice, identify affected samples in an NCR. NCR# _____
- DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C for W-1-4-DIOX) without login confirmation from customer for samples requiring ice preservation; identify affected samples in an NCR. NCR# _____
- If cooler or samples are received with a damaged Evidence Seal; identify the affected samples in an NCR. NCR# _____
- If coolers or samples are received late; identify the affected samples in an NCR. NCR# _____

Chain of Custody/ Field Sheet(s) Included?

Yes ☒ No ☐

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included?

Yes ☐ No ☒

CONTAINER CHECK

Evidence Tape on Bottles?

Yes ☐ No ☐ NA ☒

Evidence Tape intact?

Yes ☐ No ☐

If Criminal, photographs taken?

Yes ☐ No ☒

Containers intact?

Yes ☒ No ☐

Caps on tight?

Yes ☒ No ☐

Sufficient Sample Volume:

Yes ☒ No ☐If NO is checked above, generate an NCR listing affected sample IDs in its appropriate category. NCR# _____

CHLORINE CHECK REQUIRED? (Blue dot on container)

Yes ☐ No ☒ Init: IM

Chlorine detected? (One container checked per Field ID)

Yes ☐ No ☐ Init: _____

If chlorine is detected, generate an NCR listing affected sample IDs . NCR# _____

PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

**Acid Preserved Samples: pH < 2.0?

Yes ☒ No ☐ NA ☐ Init: IM

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0?

Yes ☐ No ☐ NA ☒ Init: IM

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

Coolers Unpacked/Checked by: IM

Date: 11/19/2021

Event contains NCRs (Y/N)? ☒

Event ID: Algal Bloom Response- NEROC
 WQAP-2021-11-19-01 (BLOOM-RESP)
 Date Received: 19-NOV-2021 09:25

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	IR TEMP GUN #2 exp:10/19/22
pH Test Strips 0 – 6	
pH Paper 0 – 3	
pH Paper 0 – 13	219019 exp: 7/1/22
Chlorine Test Strips	0070 exp: 02/2023

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 _____

If no, were samples shipped on dry ice? Yes _____ No _____

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: 2021-10-25-41

Project: Algae bloom 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 11/10/21

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.	Katrin Villinger	11/18/21	850	21.0	767.2	9.0	—	100.9 101.9	—	1.0180	P/F	L/F
ICV	↓	↓	855	21.2	767.3	9.0	9.0	101.3	—	1.0180	P/F	L/F
CCV	Brian Davis	11/18/21	1648	21.3	765.3	8.9	8.88	100.3	✓	1.02	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.	Katrin Villinger	11/18/21	900	210917B	09/22	1000	1000	P/F	L/F
ICV	↓	↓	905	210426A	05/22	100	102.1	P/F	L/F
CCV	Brian Davis	11/18/21	1650	210917C	9/22	50,000	50,044	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.	Katrin Villinger	11/18/21	910	2109125	9/23	7.01	21.8	7.01	-32.1	P/F	L/F
Calibr.	↓	↓	920	2107640	7/23	4.00	22.0	4.0	145.4	P/F	L/F
Calibr.	↓	↓	925	2012E08	6/22	10.03	21.9	10.03	-203.8	P/F	L/F
ICV	↓	↓	930	2109125	9/23	7.02	21.8	7.0	-31.1	P/F	L/F
CCV	Brian Davis	11/18/21	1654	21012E08	6/22	10.04	21.0	9.98	-203.7	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 10 171.7, slope from 4 to 7 177.5 (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: 11/10/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: 11/10/21 KV

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	Katrin Villinger	11/18/21	935	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:

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-10-25-41	Collected By: Kim Appleby + Katrin Villinger
Customer: ZIFLA	Field Report Prepared By: Kim Appleby
Project ID: BLOOM_RESP	Sampling Agency: FDEP

WIN ID/Field ID: 

NEHAB0037

COJ St Johns Marina

Comments: Was unable to measure Secchi depth due to swift current.

Matrix: Marine	Collection Equipment: ortho kit #7
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A	Coordinates: 30.319880, -81.681600
	High Tide Time: 930 Low Tide Time: 1557

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)
11/18/21	1515	8.10	89.1	18.9	7.60	0.3	6661	3.66	N/A	1.525
	1517	8.10	89.1	18.9	7.60	1.061	6660	3.66		

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

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
	Lot SA1105060 Exp: 4/30/22		☐ <2		
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: Kim Appleby	Date/Time: 11/18/21 1600	Number of Coolers Shipped: 2	Received By:	Date/Time:
------------------------------	--------------------------	------------------------------	--------------	------------

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-10-25-41	Collected By: Katrin Villinger & Kim Appleby
Customer: 21 FLA	Field Report Prepared By: Katrin Villinger
Project ID: BLOOM_RESP	Sampling Agency: FDEP

WIN ID/Field ID: 

NEHAB0041

LSJR @ Worth Dr S

Comments: Calm, no wind. No algae seen

Matrix: Marine	Collection Equipment: ortho kit #7
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A	Coordinates: 30.271450 -81.655080
	High Tide Time: 930 Low Tide Time: 1400

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)
11/18/21	1400	8.48 94.9	94.9	19.9	7.63	0.3	5524	3.00	0.826 (5) 108	0.826

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)	☒ W-PO4-F ☒ Field Filtered 0.45um Filter	☒ Ice	☐ <2	1	B
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice ☐ Lugols			

Relinquished By: Kim Appleby	Date/Time: 11/18/21 1600	Number of Coolers Shipped: 2	Received By:	Date/Time:
------------------------------	--------------------------	------------------------------	--------------	------------

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-	10-25-41	Collected By:	Katrin Ullinger + Kim Appleby							
Customer	ZIFA	Field Report Prepared By:	Katrin Ullinger							
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
Field ID:	WIN ID/Field ID:		Comments:							
 NEHAB0038		Plant debris on surface								
Canal to Marco Lake		Collection Equipment:	Ortho kit # 7							
Matrix:	Marine	Coordinates:	30.301370 -81.658210							
Tide:	☐ Rising ☒ Falling ☐ Slack ☐ N/A	High Tide Time:	930	Low Tide Time: 1400						
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)
11/18/21	1440	8.03	88.6	19.2	7.58	0.3	6350	3.45	0.6	1.387
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		☒ W-PO4-F ☒ Field Filtered 0.45um Filter ☒ Ice	☐ <2	1	B				
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C		☐ Ice ☐ Lugols							
Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time						
Kim Appleby	11/18/21 1600	2								

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-10-25-41	Collected By: Kim Appleby + Katrin Villinger									
Customer: ZI FLA	Field Report Prepared By: Kim Appleby + Katrin Villinger									
Project ID: BLOOM_RESP	Sampling Agency: FDEP									
Field ID:	Comments: Sporadic algae streaks seen around boat ramp dock.									
WIN ID/Field ID:  NEHAB0057	Collection Equipment: ortho kit #7									
Doctor's Lake @ Mill Cove										
Matrix: Fresh	Coordinates: 30.123150 -81.427500									
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A	High Tide Time: 1:12 Low Tide Time: 6:43									
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)
11/18/21	1200	10.98	120.4	19.3	8.24	0.3	2537	1.32	0.732 (5)	0.732
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
	Lot SA1105060		Exp: 4/30/22					☐ <2		
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		
Kim Appleby	11/18/21 1600	2								

Date of Request: 07-OCT-2021
 Created By: PARRISH_J On: 07-OCT-2021
 Modified By: JASROTIA_P On: 11-OCT-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: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 11-OCT-2021
 Biology Request Reviewed By: JASROTIA_P On: 11-OCT-2021
 Sampling Kit Required: YES Ship on: 13-OCT-2021
 Sampling Kit Shipped: YES On: 11-OCT-2021
 Sampling Kit Packed By: MCCOY_I
 Preservatives Needed: NO
 Date to Receive Samples: 25-OCT-2021
 Logged In By:

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, algal full ID

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 11 Samples:

Bottle Type: PT-50ML Number of Bottles: 11 Preserved With: ICE
 BLOOM-ID Template: DEFAULT (SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (Water) With 11 Samples:

Bottle Type: BP-1L Number of Bottles: 11 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: 11 Preserved With: ICE
 W-MCYST-AA Template: (EPA 8321B) Microcystins in water matrices by HPLC/MS/MS

Bottle Type: P-500ML Number of Bottles: 11 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: 11 Preserved With: FILTER-ICE

Bottle Group B (Water) With 11 Samples:

Bottle Type: P-125ML

Number of Bottles: 11

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.