Ayres, Joshua

From: Watts, John
Sent: Friday, July 12, 2019 10:15 AM
To: Ayres, Joshua
Subject: FW: Missing Bloom Visits

Followup to the one sent earlier this week.

John Watts
FDEP Laboratories
Environmental Administrator
245-8077

From: Faria, Francisco <Francisco.Faria@FloridaDEP.gov>
Sent: Friday, July 12, 2019 10:03 AM
To: Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>; Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>
Cc: Watts, John <John.Watts@FloridaDEP.gov>
Subject: RE: Missing Bloom Visits

I emailed John Watts about this error made on my part yesterday. Survey123 times, locations, and maps were corrected and updated, corrected field sheets/CoC can be found here. I had to edit the file because we mislabeled Water Street Canal – Near Ellenton and Main Canal to 4th Ave. Water Street Canal was collected first at 13:30, followed by Main Canal to 4th Ave at 14:05 then Manatee River @ Marker 28 at 14:25. The labels on the bottles need to be switched over.

From: Rankin, Amelia
Sent: Friday, July 12, 2019 9:47 AM
To: Faria, Francisco <Francisco.Faria@FloridaDEP.gov>; Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>
Subject: RE: Missing Bloom Visits

One more question. The times on the submittal form (attached) are different than the times on the map. (Water Street Canal and Main Canal times are switched.) Which time goes with which visit?

From: Faria, Francisco <Francisco.Faria@FloridaDEP.gov>
Sent: Friday, July 12, 2019 9:19 AM
To: Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>; Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>
Subject: RE: Missing Bloom Visits

At my desk, perhaps this could have been weather related? Sara and I noticed our computers were running slow for short increments at random times since Tuesday. Glad to hear it's up now, and thank you for keeping me informed.

From: Rankin, Amelia
Sent: Friday, July 12, 2019 9:14 AM
To: Faria, Francisco <Francisco.Faria@FloridaDEP.gov>; Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>
Subject: RE: Missing Bloom Visits

Survey 123 is instant when you're in a good signal/fast internet. Sometimes, though, there is a delay. The visits are on the map, now ☺

Just out of curiosity, were you back in the field or at a desk when you submitted these visits?

Amelia

From: Faria, Francisco <Francisco.Faria@FloridaDEP.gov>
Sent: Friday, July 12, 2019 8:14 AM
To: Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>; Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>
Subject: RE: Missing Bloom Visits

I submitted them around 15:00 yesterday (07/11/19) because we had pictures and labels for the site mixed up. Is Survey123 instant or is there a lag time?

From: Bearden, Matthew
Sent: Thursday, July 11, 2019 5:28 PM
To: Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>
Cc: Faria, Francisco <Francisco.Faria@FloridaDEP.gov>
Subject: RE: Missing Bloom Visits

Afternoon Amelia,

Let me run this by Francisco.

I am up in the Pensacola office this week and he was taking the lead on bloom responses in my absence.

Thanks!
Matt

Matthew Bearden
SW ROC

From: Rankin, Amelia
Sent: Thursday, July 11, 2019 5:23 PM
To: Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>
Subject: Missing Bloom Visits

Hi Matt,

Were the 3 Bloom samples collected on 7/10/19 get entered into the Survey? I don't see them on the map.

Main canal to 4th ave
Water Street Canal near Ellenton
Manatee River at marker 28

Thanks!

Amelia C Rankin

Taxonomy Manager
FDEP Laboratory--Biology Program
2600 Blair Stone Rd.

Log-in Checklist

RQ- **2019 - 07 - 01 - 60** Login Station ID: **# 3**

Shipping Method: FedEx | UPS | HD | Greyhound Date/Time of Receipt: **07-11-2019 / 09:45**

Cooler Temperature*	Samples Frozen	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Tracking # Damaged waybills only
					Present?		*Intact?		
	YES	HNO_3	Formalin		Yes	No	Yes	No	
3.9C				18					4751 8781 1702

* HNO3 and Formalin persevered samples do NOT have a temperature requirement. For all others, if the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX and microbiology), or if Evidence Seal is damaged. Identify the containers in the affected cooler(s) on back of this form. **DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C) without login confirmation from customer for samples requiring ice preservation. An NCR still is required.**

**Chain of Custody/ Field Sheet(s) Included? Yes X No

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes No X

**Note: If "No" is checked below, fill out the back of this form (Field ID, Test IDs, etc.) and generate an NCR.

CONTAINER CHECK

**Evidence Tape on Bottles? Yes No X If yes, is it intact? Yes No

**Caps on tight? Yes X No **Containers intact? Yes X No

**Sufficient Sample Volume: Yes X No

CHLORINE CHECK REQUIRED? (Blue dot on container) Yes No X Init: ABS

Chlorine detected? (One container checked per Field ID) Yes No Init: ABS

If "YES", list affected Field IDs and Test IDs below.

Field ID	List TestID(s) where Chlorine was Detected, an NCR is required.

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

**Acid Preserved Samples: pH≤ 2.0? Yes X No NA Init: ABS

**W-1-4-DIOX (Green dot on container) preserved to pH<4.0? Yes No X NA Init: ABS

Coolers Unpacked/Checked by: ABS **Date:** 07-11-2019 **NCRs (Y/N)?** Yes

Event ID: WQAP - 2019 - 07 - 11 - 03 **NCR #** 7777

Log-in Checklist

Samples with Incorrect pH Preservation

Field ID	Bottle Test ID(s)	pH	Action Taken

Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

Cooler ID	Field ID	Bottle Test ID(s)

Bottles Not Intact

Field ID	Bottle Test ID(s)	Loose Cap	Damaged Cap		Damaged Container		Evidence Tape Not Intact
			CK	BR	CK	BR	

Samples with Insufficient Volume for Analyses

Field ID	Bottle Test ID(s)	Action Taken

Infrared Thermometer ID:	REC 03 2018 EXP:04/29/2020
pH Test Strips 0 – 6 Lot #	213316AV EXP:05/15/2020
pH Paper 0 – 3 Lot #	220416A EXP:07/30/2020
pH Paper 0 – 13 Lot #	215517 exp jun 1 2020
Chlorine Test Strips Lot #	8212 2021 / 05

Additional Comments:

ENCORE SAMPLES

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

Were Encore samples received? Yes_____ No__X__

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes_____ If no, were samples shipped on dry ice? Yes_____ No_____ No_____

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: _____

Corrected 7/14/19 1220

Request Number: RQ-2019-[illegible]01-60

Algal Bloom Response - SWD

Customer: WQAP

Project ID: BLOOM-RE[illegible]

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: John Watts

Field Report Prepared By: S Meyer

Collected By: F Faria & S Meyer

Sampling Agency: FDEP and BOC

Site Name: Water Stree[illegible] Canal- Near Ellenton

Date: 07/10/2019

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 07/10/19 Time 1330 (Eastern) Central | Composite end Date — Time — | Bottle Group(s) (See pg 2): A, B, C, D

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 4.29 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 28.6 | pH 7.41 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 10735

Latitude ☐ dd ☐ dms | Longitude | Salinity (ppt) 6.04 | Comments

---

Site Name: Main C[illegible]al to 4th Ave

Date: 07/10/2019

Loc

Fiel

WII

Latitude | Longitude | Salinity (ppt) 10.12 | Comments

Site Name: Manatee [illegible]ver @ Marker 28

Date: 07/10/2019

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 07/10/2019 Time 1425 (Eastern) Central | Composite end Date — Time — | Bottle Group(s): A, B, C, D

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 5.50 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 29.0 | pH 7.76 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 17231

Latitude | Longitude | ☐ dd ☐ dms | Salinity (ppt) 10.08 | Comments

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Location | ☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time (Eastern) Central | Composite end Date Time | Bottle Group(s)

Field ID | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

WIN/STORET # | Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

Latitude | Longitude | ☐ dd ☐ dms | Salinity (ppt) | Comments

---

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Sarah Meyer	07/[illegible]0/2019 1700	FedEx	1		

Site Name: Water Street Canal- Near Ellenton

Date: 07/10/2019

Appendix A

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET (7-6-05 V2)

WATERBODY	DATE (M/D/YY):	TIME: (AM)	Case ID#:
Manatee River	07/10/19	1330	(SF) Water Street Canal- Near Ellenton

COUNTY: Manatee

LOCATION: ~~Ham Canal to 11th Ave~~ ~~Manatee Palm Ave Canal~~ SM

NEAREST TOWN/CITY: Bradenton

Visit Type: Initial ☐ Recon ☐ Sampling ☐ Follow- ☒

Samples collected: ☒ yes ☐ no

Samples submitted to: FDEP

Photos Taken: ☒ yes ☐ no

Sample collection method: Single Grab: ☒ Grab Composite: ☐ Depth Integrated composite: ☐

Sample & Analysis types: Aqueous: ☒ Surface Scum: ☐ Benthic mat: ☐ Tissue: ☐

Algal ID & enumeration: ☒ Nutrients: ☒ Chl-a: ☒ AGP: ☐ Turbidity: ☐ Toxin: ☒ Specify

Estimated size of bloom:

Impounded: ☐ yes ☐ no

Lake/Estuary Typical depth: 0.6 m deep

Inflows: ☒ yes ☐ no

Outflows: ☒ yes ☐ no

Stream/River/Canal: 15 m wide

Typical Transect: ____ m deep ____ m deep ____ m deep

Water velocity: ____ m/s (Left bank) ____ m/s (Middle) ____ m/s (Right bank)

Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐

Description of Bloom/ Present Weather conditions: Partly Cloudy

Latitude: ____ Degrees ____ Minutes ____ Seconds

Longitude: ____ Degrees ____ Minutes ____ Seconds

Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map)

Sketch bloom area on the attached map. Indicate wind direction.

Wind From SW

Last rain event: ____

Rainfall amount: ____

Contains 1:1 Sulfuric Acid Lot No.: SA7153030 Expires: 05/12/19 See Safety Data Sheet (SDS)

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond (µmho/cm) or Salinity (ppt):	DO % Sat	Sal	Secchi (m)
Top	0.3	28.6	7.41	4.29	10735	57.1	6.04	0.4
Mid-depth								
Bottom								

System Type: Stream: ☐ (1st - 2nd order, 3rd - 4th order, 5th - 6th order, 7th order or greater) Lake: ☐ Wetland: ☐ Estuary: ☒ Other: ☐

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐

Water Surface (check box): Clear: ☒ Scum: ☐ Globs: ☐ Slick: ☐

Water Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Bloom Color (check box): Green: ☐ Red: ☐ Brown: ☐ Other: ☐

	Abundance	Amount	Form	Color	Attached
Periphyton	☒	☐	☐	☐	☐
Fish	☒	☐	☐	☐	☐
Aquatic Macrophytes	☐	☒	☒	☐	☐
Iron/sulfur Bacteria	☒	☐	☐	☐	☐

VISIT TEAM: F Faria & S Meyer

AGENCY: FDEP SW RCC

Site Name: Main Canal to 4th Ave

Date: 07/10/2019

Appendix A

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET (7-6-06 V2)

WATERBODY	DATE (M/D/YY):	TIME: (AM)	Case ID#:
Manatee River	07/10/19	1405	

COUNTY:	LOCATION: Main Canal to 4th Ave ~~Waterstreet Canal~~ (F)	NEAREST TOWN/CITY:
Manatee		Ellenton

Visit Type: Initial ☐ Recon ☐ Sampling ☒ Follow- ☒

Samples collected: ☒ yes ☐ no

Samples submitted to: ~~Aqua Check~~

Photos Taken: ☒ yes ☐ no

Sample collection method: Single Grab: ☒ Grab Composite: ☐ Depth integrated composite: ☐

Sample & Analysis types: Aqueous: ☒ Surface Scum: ☐ Benthic mat: ☐ Tissue: ☐

Algal ID & enumeration: ☒ Nutrients: ☒ Chl-a: ☒ AGP: ☐ Turbidity: ☐ Toxin: ☒ Specify

Estimated size of bloom:

Impounded: ☐ yes ☐ no

Lake/Estuary Typical depth: 1.8 m deep

Inflows: ☒ yes ☐ no

Outflows: ☒ yes ☐ no

Stream/River/Canal Typical Transect: 10 m wide; m deep; m deep; m deep

Water velocity: m/s (Left bank); m/s (Middle); m/s (Right bank)

Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐

Description of Bloom/ Present Weather conditions: Partly Cloudy

Latitude (Degrees / Minutes / Seconds)

Longitude (Degrees / Minutes / Seconds)

Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map)

Sketch bloom area on the attached map. Indicate wind direction.

Wind From SW

Last rain event:

Rainfall amount:

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond (umhos/cm) or Salinity (ppt):	DO % Sat	Sal	Secchi (m)
Top	0.3	29.7	7.59	4.41	18343	61.5	10.78	0.6
Mid-depth								
Bottom	1.3	30.0	7.48	0.10	24499	1.4	14.79	

Contains 1:1 Sulfuric Acid Lot No.: BA7163030 Expires: 09/12/18 (see Safety Data Sheet (SDS))

System Type: Stream: ☐ (1st - 2nd order; 3rd - 4th order; 5th - 6th order; 7th order or greater) Lake: ☐ Wetland: ☐ Estuary: ☒ Other: ☐

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐

Water Surface (check box): Clear: ☒ Scum: ☐ Globs: ☐ Slick: ☐

Water Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Bloom Color (check box): Green: ☐ Red: ☐ Brown: ☐ Other: ☐

	Abundant	Present	Sparse	Absent
Periphyton	☒	☐	☐	☐
Fish	☒	☐	☐	☐
Aquatic Macrophytes	☐	☐	☒	☐
Iron/sulfur Bacteria	☒	☐	☐	☐

VISIT TEAM: F Faria S Meyer

AGENCY: FDEP SW ROC

Site Name: Manatee River @ Marker 28

Date: 07/10/2019

Appendix A

CYANOBACTERIA BLOOM RESPONSE FIELD DATA SHEET (7-6-06 V2)

WATERBODY	DATE (MO/YY):	TIME: (AM)	Case ID#:
Manatee River	07/10/19	1425	

COUNTY:	LOCATION:	NEAREST TOWN/CITY:
Manatee	Manatee River @ Marker 28	Ellenton

Visit Type: Initial ☐ Recon ☐ Sampling ☐ Follow- ☒

Samples collected: ☒ yes ☐ no

Samples submitted to: FDEP

Photos Taken: ☒ yes ☐ no

Sample collection method: Single Grab: ☒ Grab Composite: ☐ Depth Integrated composite: ☐

Sample & Analysis types: Aqueous: ☒ Surface Scum: ☐ Benthic mat: ☐ Tissue: ☐

Algal ID & enumeration: ☒ Nutrients: ☒ Chl-a: ☒ AGP: ☐ Turbidity: ☐ Toxin: ☒ _____ Specify

Estimated size of bloom: Impounded: ☐ yes ☐ no

Lake/Estuary Typical depth: 2.3 m deep Inflows: ☐ yes ☐ no Outflows: ☐ yes ☐ no

Stream/River/Canal: 100() m wide

Typical Transect: _____ m deep _____ m deep _____ m deep

Water velocity: _____ m/s (Left bank) _____ m/s (Middle) _____ m/s (Right bank)

Canopy Cover: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐

Description of Bloom/ Present Weather conditions: Partly cloudy

Latitude: _____ Degrees _____ Minutes _____ Seconds

Longitude: _____ Degrees _____ Minutes _____ Seconds

Contains 1:1 Sulfuric Acid Lot No.: BA7183030 Expires: 09/12/18 See Safety Data Sheet (SDS)

SULFURIC ACID 1:1

Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map)

Last rain event: _____

Sketch bloom area on the attached map. Indicate wind direction.

Rainfall amount: _____

Wind from SW

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	DO % Sat	Sal	Secchi (m)
Top	0.3	29.0	7.76	5.50	17231	75.6	10.08	
Mid-depth								0.6
Bottom	1.8	29.4	7.74	1.66	26831	23.7	16.36	

System Type: Stream: ☐ (1st - 2nd order, 3rd - 4th order, 5th - 6th order, 7th order or greater) Lake: ☐ Wetland: ☐ Estuary: ☐ Other: ☐ _____

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐ _____

Water Surface (check box): Clear: ☒ Scum: ☐ Globs: ☐ Slick: ☐

Water Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Bloom Color (check box): Green: ☐ Red: ☐ Brown: ☐ Other: ☐

Periphyton	☒	☐	☐	☐
Fish	☒	☐	☐	☐
Aquatic Macrophytes	☐	☐	☒	☐
Iron/sulfur Bacteria	☒	☐	☐	☐

VISIT TEAM: Francisco Faria, Sarah Meyer

AGENCY: FDEP SW ROC

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: Chewy RQ- 2019-07-01-60 Project: Manatee Fellow Up

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 05/14/19

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.	F. Faria	07/10/19	1117	23.0	761.1	8.6	8.59	100.1	–	1.0158	(P) F	L / F
ICV	|	|	1118	|	761.0	|	|	100.2	–	–	(P) F	(L) / F
CCV	|	|	1618	24.4	760.4	8.4	8.43	100.8	–	–	(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.	F. Faria	07/10/19	1121	28D1929	12/19	70,000	70,000	(P) F	(L) / F
ICV	|	|	1125	2904A78	03/21	10,000	10149	(P) / F	(L) F
CCV	|	|	1630	27091398	09/19	50,000	50379	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.	F. Faria	07/10/19	1130	188510	01/21	7.00	23.2	7.00	-19.4	(P) F	(L) / F
Calibr.	|	|	1136	191303	03/21	4.00	23.4	4.00	158.1	(P) / F	(L) F
Calibr.	|	|	1140	187680	12/20	10.02	|	10.02	-194.0	(P) / F	(L) / F
ICV	|	|	1142	|	|	|	23.3	10.00	–	(P) / F	(L) / F
CCV	|	|	1634	188510	01/21	7.00	23.5	6.99	–	(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 10 174.6, 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: _____

~~If NO, what will be used to measure Depth? Depth 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	F. Faria	07/10/19	1143	0.00	0.00	(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:

RQ-2019-07-01-60

Date of Request: 24-JUN-2019
Created By: WATTS_J On: 24-JUN-2019
Modified By: SWANSON_C On: 24-JUN-2019
Customer: WQAP
Project: BLOOM-RESP
Division: Division of Environmental Assessment and Restoration
District:
Sampling Event: Algal Bloom Response - SWD

Send Coolers To:

Phone: 813-470-5951
13051 N. Telecom Parkway

Temple Terrace, FL 33637
Attn: Matthew Bearden

Send Final Report To:

13051 N. Telecom Parkway

Temple Terrace, FL 33637
Attn: Matthew Bearden

Program Module Number:
Priority: 1
Event Status: R
Criminal Investigation: NO
Chemistry Request Reviewed By: WATTS_J On: 24-JUN-2019
Biology Request Reviewed By: SWANSON_C On: 24-JUN-2019
Sampling Kit Required: YES Ship on: 28-JUN-2019
Sampling Kit Shipped: YES On: 27-JUN-2019
Sampling Kit Packed By: REAVES_S
Preservatives Needed: NO
Date to Receive Samples: 01-JUL-2019
Received By: SHAIK_A On: 11-JUL-2019

Report Type: Final Only
FTP Data: NO
QC Report: YES
Date Log: NO
Authorization Log: NO

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

Bottle Groups A/B/C - separate event, priority 1
Bottle Group D- separate event, priority 12

Bottle Group A - Priority 1
For algal dominant taxon.

Bottle Group B - Priority 1
For toxin testing.

Bottle Group C - Priority 1
Water quality testing - nutrients and chlorophyll

Bottle Group D - Priority 12
For 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.

Bottle Group A (Biological) With 6 Samples:

Bottle Type: PT-50ML Number of Bottles: 6 Preserved With: ICE
BLOOM-ID Template: DEFAULT (SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (Water) With 6 Samples:

Bottle Type: BG-250ML-WDMTH Number of Bottles: 6 Preserved With: ICE
W-MCYST-AA Template: DEFAULT (EPA 8321B) Microcystins in water matrices by HPLC/MS/MS

Bottle Group C (Water) With 6 Samples:

Bottle Type: BP-1L Number of Bottles: 6 Preserved With: ICE
CHLSUITE-W Template: DEFAULT (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: P-500ML Number of Bottles: 6 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

Bottle Group C (Water) With 6 Samples:

Bottle Type: P-500ML Number of Bottles: 6 Preserved With: ICE And H2SO4

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: 6 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

Bottle Group D (Water) With 6 Samples:

Bottle Type: BP-1L Number of Bottles: 6 Preserved With: Lugols

DTY-QN-C	Template: DEFAULT	(SOP-AB05_1) No. of diatom taxa of quantitative phytoplankton sample.
PKD-QN-C	Template: DEFAULT	(SOP-AB05) No. of wet taxa of quantitative phytoplankton sample.

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

Request Number: RQ-2019-07-01-60

Algal Bloom Response - SWD

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WQAP

Project ID: BLOOM-RESP

Requester: John Watts

Field Report Prepared By: S Meyer

Collected By: F Faria & S Meyer

Sampling Agency: FDEP SW RCG

Site Name: Main Canal to 4th Ave

Date: 07/10/2019

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/10/19 Time 1330	Eastern / Central	Composite end Date — Time —	Bottle Group(s) (See pg 2) A · B C · D		
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 4.29	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —			
WIN/STORET #	Temp (C) 28.6	pH 7.41	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 10735		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 6.04	Comments				

Site Name: Water Street Canal- Near Ellenton

Date: 07/10/2019

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/10/2019 Time 1405	Eastern / Central	Composite end Date — Time —	Bottle Group(s) A · B C · D		
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 4.41	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —			
WIN/STORET #	Temp (C) 29.7	pH 7.59	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 18343		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 10.78	Comments				

Site Name: Manatee River @ Marker 28

Date: 07/10/2019

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/10/2019 Time 1425	Eastern / Central	Composite end Date — Time —	Bottle Group(s) A · B C · D		
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen 5.50	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —			
WIN/STORET #	Temp (C) 29.0	pH 7.76	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 17231		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 10.08	Comments				

Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern / Central	Composite end Date Time	Bottle Group(s)		
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
WIN/STORET #	Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Sarah Meyer	07/10/2019 1700	FedEx	1	ABP	7-11-19 9:45

Group: A	Bottle Type: BLOOM-ID	PT-50ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
Group: B	Bottle Type: W-MCYST-AA	BG-250ML-WDMTH	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
Group: C	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
Group: C	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	3
Group: C	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	3
Group: D	Bottle Type: DTY-QN-C PKD-QN-C	BP-1L	# of Bottles: 6	Preservative:	Lugols	Enter Number of Bottles Sent to Lab	3