

From: [Harry Phillips](#)
To: [Kathryn McBride](#); [Rankin, Amelia](#)
Cc: [Wolfe, Kirby](#)
Subject: RE: [EXTERNAL] - 9/21/20 City of Cape Coral Canal Samples
Date: Wednesday, September 23, 2020 8:11:49 AM

On the Bloom Response Field Data Sheet the time is taken from the YSI, when the snapshot is logged.

From: Kathryn McBride <kmcbride@capecoral.net>
Sent: Wednesday, September 23, 2020 7:59 AM
To: Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>; Harry Phillips <hphillip@capecoral.net>
Cc: Wolfe, Kirby <Kirby.Wolfe@FloridaDEP.gov>
Subject: RE: [EXTERNAL] - 9/21/20 City of Cape Coral Canal Samples

I think the time difference is due to me recording the collection time from my field watch while the time for sonde readings was taken from the time on the sonde which would likely put them a few minutes different, Harry is that what you think?

We will make sure going forward that the times are from the sonde so there is no difference.

Katie R. McBride, M.S.
Environmental Biologist
Environmental Resources Division
815 Nicholas Parkway East
City of Cape Coral, FL 33990
Phone: (239) 242-3547

From: Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>
Sent: Tuesday, September 22, 2020 5:04 PM
To: Kathryn McBride <kmcbride@capecoral.net>; Harry Phillips <hphillip@capecoral.net>
Cc: Wolfe, Kirby <Kirby.Wolfe@FloridaDEP.gov>
Subject: [EXTERNAL] - 9/21/20 City of Cape Coral Canal Samples

Caution – This email originated from outside of our organization. Please do not open any attachments or click on any links from unknown sources or unexpected email.

Hello,

Today, we received the 3 City of Cape Coral canal samples that were collected on 9/21/20. Two different submittal sheets were filled out. The standard lab submittal form and the Bloom Response Field Data Sheet (attached). For each sample, there were 2 different times recorded.

The collection times written on the BLOOM-ID sample containers match the collection times written

on the lab submittal form, so the BLOOM-ID samples were logged in using the times on the lab submittal form, not the times on the Bloom Response form. Why are the times on the Bloom Response form different?

Thank you,

Amelia Rankin

Taxonomy Manager

FDLP Laboratory--Biology Program

2600 Blair Stone Rd.

MS 6515

Tallahassee, FL 32399-2400

Phone: (850) 245-8182

Login Checklist

RQ- **2020- 09 - 14-52**

Login Station ID: **# 3**

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: **09/22/2020 / 09:55**

*Cooler Temperature	Samples Frozen?	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Waybill Tracking #
					Present?		*Intact?		
	YES	HNO ₃	Formalin		Yes	No	Yes	No	
2.8c				15		x			9117 6382 1337

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 oC (above 10.0 oC 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 **X** No _____

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

Yes _____ No **X**

CONTAINER CHECK

Evidence Tape on Bottles?

Yes _____ No _____ NA **X**

Evidence Tape intact? Yes _____ No _____

If Criminal, photographs taken?

Yes _____ No _____

Containers intact? Yes **X** No _____

Caps on tight?

Yes **X** No _____

Sufficient Sample Volume:

Yes **X** 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 **x** Init: **ABS**

Chlorine detected? (One container checked per Field ID)

Yes _____ No _____ Init: **ABS**

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 **X** No _____ NA _____ Init: **ABS**

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

Yes _____ No _____ NA **x** Init: **ABS**

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

Coolers Unpacked/Checked by: **ABS**

Date: **08/22/2020**

Event contains NCRs (Y/N)? **N**

Event ID:

WQAP- 2020 - 09 - 22 - 01

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	IRTG # 3 EXP:11/05/2020
pH Test Strips 0 – 6	213316 BV EXP:05/16/21
pH Paper 0 – 3	XX XX XX XX
pH Paper 0 – 13	231019 EXP:11/01/2020
Chlorine Test Strips	9080 / 2022 / 01

ENCORE SAMPLES

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

Were Encore samples received? Yes _____ Init: ABS

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: _____

Algal Bloom Response - SOROC Cape Coral

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WQAP

Requester: John Watts

Field Report Prepared By:

HARRY PHILLIPS
KATHRYN MORRIDE

Project ID: BLOOM-RESP

Collected By:

KATHRYN MORRIDE

Sampling Agency:

CITY OF CAPE CORAL

Location MAKAI CANAL		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/21/20 Time 11:03		Eastern Central	Composite end Date Time		Bottle Group(s) (See pg 2)	
Field ID CC-092120-001		Matrix (type, e.g., Salt, Fresh, etc) FRESH		Diss. Oxygen 59.0		☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) N/A		A, B	
WIN/STORET #		Temp (C) 28.886		pH 7.41		Sample Depth 64	☐ ft ☒ m	Sp. Conductance (umho/cm) .634		
Latitude 26 37.118		☒ dd ☐ dms	Longitude 81 59.855		☒ dd ☐ dms	Salinity (ppt) .30				Comments
Location HIGHLANDER CANAL		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/21/20 Time 11:13		Eastern Central	Composite end Date Time		Bottle Group(s)	
Field ID CC-092120-002		Matrix (type, e.g., Salt, Fresh, etc) FRESH		Diss. Oxygen 89.6		☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) N/A		A, B	
WIN/STORET #		Temp (C) 28.841		pH 7.51		Sample Depth .23	☐ ft ☒ m	Sp. Conductance (umho/cm) .588		
Latitude 26 36.943		☒ dd ☐ dms	Longitude 81 59.551		☒ dd ☐ dms	Salinity (ppt) .28				Comments
Location ARIES CANAL		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/21/20 Time 11:30		Eastern Central	Composite end Date Time		Bottle Group(s)	
Field ID CC-092120-003		Matrix (type, e.g., Salt, Fresh, etc) FRESH		Diss. Oxygen 86.8		☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) N/A		A, B	
WIN/STORET #		Temp (C) 28.748		pH 7.46		Sample Depth .80	☐ ft ☒ m	Sp. Conductance (umho/cm) .602		
Latitude 26 60.682		☒ dd ☐ dms	Longitude 81 99.639		☒ dd ☐ dms	Salinity (ppt) .29				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: KRM	Date/Time 9/21/20 12:30	Shipping Method OVERNIGHT	Number of Coolers Shipped: 1 COOLER, 3 KITS	Received By: [Signature]	Date/Time 9.22.20/9.55
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Group: A	Bottle Type:	PT-50ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
BLOOM-ID						
Group: B	Bottle Type:	BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
CHLSUITE-W						
Group: B	Bottle Type:	BG-250ML-WDMT H	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
W-MCYST-AA						
Group: B	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
W-NH3						
W-NO2NO3						
W-S-A-TP						
W-TKN						
Group: B	Bottle Type:	P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab _____
W-PO4-F						



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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

RQ - 2020-19-1A-52		Collected By: KATHRYN MCBRIDE								
Customer: CITY OF CAPE CORAL	Field Report Prepared By: KATHRYN MCBRIDE									
Project ID: CC-092120-001	Sampling Agency: CITY OF CAPE CORAL									
Location: MAKAI CANAL		Comments:								
Field ID: CC-092120-001		Coordinates: 26 37.118 81 59.855								
WIN ID:		Collection Equip:								
Matrix: FRESH	Grab	High Tide Time:	Low Tide Time:							
		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 (PPT)
9/21/20	11:07	59.0	4.54	28.88	7.41	.22	.64	7.64	.634	.30
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: _____ ☐ N/A						
Algae Distribution	☐ Suspended in water column		☒ On surface	☐ Other: _____ ☐ N/A						
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			
	Acid Lot:	H2SO4 LOT# SA0038110 EXP: 02/07/2021	Exp:							
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter	☒ Ice			1	B			
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☐ Ice	Lugols? Y/ ☒ N		1	B			
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:		Date/Time				
KRM	9/21/20 12:30									



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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

RQ - 2020-19-14-52		Collected By: KATHRYN MCBRIDE								
Customer: CITY OF CAPE CORAL		Field Report Prepared By: HARRY PHILLIPS								
Project ID: CC-092120-002		Sampling Agency: CITY OF CAPE CORAL								
Location: HIGHLANDER CANAL		Comments:								
Field ID: CC-092120-002		Coordinates: 26 36.943 81 59.551								
WIN ID:		Collection Equip:								
Matrix: FRESH		High Tide Time: Low Tide Time:								
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)
9/21/20	11:16	89.6	6.90	28.84	7.51	.23	1.30	.60	.588	.28
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: _____	☐ N/A					
Algae Distribution	☒ Suspended in water column	☒ On surface	☐ Other: _____	☐ N/A						
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		
	Acid Lot:	H2SO4 LOT# SA0038110 EXP: 02/07/2021		Exp:						
Filtered Nutrients (P125mL)	☒ W-PO4-F		☐ Field Filtered 0.45µm Filter		☒ Ice		1	B		
	Filter Lot #									
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice		Lugols? Y ☒ N		1	B		
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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

RQ - 2020-19-14-52 52		Collected By: KATHRYN MCBRIDE								
Customer: CITY OF CAPE CORAL	Field Report Prepared By: HARRY PHILLIPS		KATHRYN MCBRIDE							
Project ID: CC-092120-003	Sampling Agency: CITY OF CAPE CORAL									
Location: ARIES CANAL		Comments:								
Field ID: CC-092120-003		Coordinates: 26 60.682 81 99.639								
WIN ID:		Collection Equip:								
Matrix: FRESH		High Tide Time: N/A	Low Tide Time:							
☒ 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)
9/21/20	11:39	86.8	6.69	28.748	7.46	.23	1.15	.80	.602	.29
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: _____	☐ N/A					
Algae Distribution	☒ Suspended in water column	☐ On surface	Other: _____	☐ N/A						
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			
	Acid Lot:	H2SO4 LOT# SA0038110 EXP: 02/07/2021	Exp:							
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter	☒ Ice		1	B				
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☐ Ice	Lugols? Y / N	1	B				
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
KRM	9/21/20									

Date of Request: 14-SEP-2020
 Created By: WATTS_J On: 14-SEP-2020
 Modified By: JASROTIA_P On: 14-SEP-2020
 Customer: WQAP
 Project: BLOOM-RESP
 Division:
 District:
 Event Description: Algal Bloom Response - SOROC Cape Coral

Send Coolers To:

Phone: 2395740745
 Public Works City of Cape Coral
 815 Nicholas Parkway E
 Cape Coral, FL 33901
 Attn: Maya Robert
 Cooler Ship EMail: mrobert@capecoral.net

Priority: 1
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 14-SEP-2020
 Biology Request Reviewed By: JASROTIA_P On: 14-SEP-2020
 Sampling Kit Required: YES Ship on: 15-SEP-2020
 Sampling Kit Shipped: YES On: 15-SEP-2020
 Sampling Kit Packed By: KLUG_K
 Preservatives Needed: YES
 Date to Receive Samples: 14-SEP-2020
 Logged In By: SHAIK_A On: 22-SEP-2020

Send Final Report To:

DEP SO ROC
 2295 Victoria Ave
 Fort Myers, FL 33901
 Attn: Kirby Wolfe
 Report Notification EMail:
 kirby.wolfe@dep.state.fl.us;mrobert@capecoral.net

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, 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

6 - vials of sulfuric acid/2 labels

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

Bottle Group B (Water) With 6 Samples:

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
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

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