

Shaik, Amzad

From: Rankin, Amelia
Sent: Monday, March 20, 2023 11:43
To: Shaik, Amzad
Subject: FW: 6 HABs Collected 3/16/23 - CEROC

From: Rankin, Amelia
Sent: Monday, March 20, 2023 9:54 AM
To: Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>; Schwartz, Victoria <Victoria.Schwartz@FloridaDEP.gov>; Whiting, David D. <David.D.Whiting@dep.state.fl.us>; Swanson, Cheryl <Cheryl.Swanson@FloridaDEP.gov>; Klug, Kyle <Kyle.Klug@floridadep.gov>
Cc: Warren, Kalina <Kalina.Warren@dep.state.fl.us>; Atchison, Jessie <Jessie.Atchison@FloridaDEP.gov>; Boman, Leif <Leif.Boman@FloridaDEP.gov>; Riordan, Terry <Terry.Riordan@FloridaDEP.gov>
Subject: RE: 6 HABs Collected 3/16/23 - CEROC

Hi Matt,

The samples just got here. I believe the hold time for the toxins is 7 days, so they should be good for analysis. If the algae are alive, we'll ID those. Nutrients and chlorophyll are beyond hold time.

Amelia

From: Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>
Sent: Monday, March 20, 2023 8:01 AM
To: Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>; Schwartz, Victoria <Victoria.Schwartz@FloridaDEP.gov>; Whiting, David D. <David.D.Whiting@dep.state.fl.us>; Swanson, Cheryl <Cheryl.Swanson@FloridaDEP.gov>; Klug, Kyle <Kyle.Klug@FloridaDEP.gov>
Cc: Warren, Kalina <Kalina.Warren@dep.state.fl.us>; Atchison, Jessie <Jessie.Atchison@FloridaDEP.gov>; Boman, Leif <Leif.Boman@FloridaDEP.gov>; Riordan, Terry <Terry.Riordan@FloridaDEP.gov>
Subject: RE: 6 HABs Collected 3/16/23 - CEROC

Thanks for letting us know, Amelia! And, bummer 😞

If the samples arrive today, will we be able to run the toxin analysis?

Kyle – Can you let us know if these arrive today?

Matthew Bearden
Cen ROC

From: Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>
Sent: Friday, March 17, 2023 5:15 PM
To: Schwartz, Victoria <Victoria.Schwartz@FloridaDEP.gov>; Whiting, David D. <David.D.Whiting@dep.state.fl.us>; Swanson, Cheryl <Cheryl.Swanson@FloridaDEP.gov>; Klug, Kyle <Kyle.Klug@FloridaDEP.gov>
Cc: Warren, Kalina <Kalina.Warren@dep.state.fl.us>; Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>; Atchison, Jessie <Jessie.Atchison@FloridaDEP.gov>; Boman, Leif <Leif.Boman@FloridaDEP.gov>; Riordan, Terry

<Terry.Riordan@FloridaDEP.gov>

Subject: RE: 6 HABs Collected 3/16/23 - CEROC

Hi,

Just wanted to let you know that 3 of these samples did not arrive at our lab on Friday, 3/17: Lake Sue, Deep Lake, and Sunset Lake.

Amelia

From: Schwartz, Victoria <Victoria.Schwartz@FloridaDEP.gov>

Sent: Thursday, March 16, 2023 5:37 PM

To: Whiting, David D. <David.D.Whiting@dep.state.fl.us>; Swanson, Cheryl <Cheryl.Swanson@FloridaDEP.gov>; Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>; Klug, Kyle <Kyle.Klug@FloridaDEP.gov>

Cc: Warren, Kalina <Kalina.Warren@dep.state.fl.us>; Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>; Atchison, Jessie <Jessie.Atchison@FloridaDEP.gov>; Boman, Leif <Leif.Boman@FloridaDEP.gov>; Riordan, Terry <Terry.Riordan@FloridaDEP.gov>

Subject: 6 HABs Collected 3/16/23 - CEROC

Hello,

The following HAB kits were collected today (3/16/23) by CEROC and should be arriving tomorrow:

1. **Lake Howell – NW Shore** (Seminole County), RQ-2023-02-27-47, Samplers: Jessie Atchison & Leif Boman (*Follow up*)
2. **Deep Lake – N Shore** (Seminole County), RQ-2023-02-27-48, Samplers: Terry Riordan & Victoria Schwartz (*Follow up*)
3. **Louise Lake – NW Lobe** (Volusia County), RQ-2023-02-27-48, Samplers: Terry Riordan & Victoria Schwartz (*Follow up*)
4. **Sunset Lake – W Shore** (Orange County), RQ-2023-02-27-48, Samplers: Terry Riordan & Victoria Schwartz (*Follow up*)
5. **Lake Sue – Fawsett Ramp** (Orange County), RQ-2023-02-27-49, Samplers: Terry Riordan & Victoria Schwartz (*Follow up*)
6. **Lake Mann – McQueen Park** (Orange County), RQ-2023-02-27-49, Samplers: Terry Riordan & Victoria Schwartz (*Follow up*)

Please let me know if you have any questions!

Best,
Victoria



Victoria Schwartz

Florida Department of Environmental Protection
Division of Environmental Assessment and Restoration
Environmental Specialist
Victoria.Schwartz@FloridaDEP.gov
Office: 407-897-4180

Login Checklist

RQ- 2023 - 02 - 27 - 48

Login Station ID: # 2

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 03/20/2023 / 09:30

*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	
9.5c				10		x			5859 4733 7608

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# 9793
- 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: 03/20/2023

Event contains NCRs(Y/N)? Y

EventID: Algal Bloom Response - CEROC

IQAP-2023-03-17-04 (RI NOM-RESP)

9793

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	IRTG # 2 EXP:10/17/2023
pH Test Strips 0 – 6	LOT#223819AV EXP:8/30/23
pH Paper 0 – 3	N/A
pH Paper 0 – 13	LOT#207621 EXP:3/15/2024
Chlorine Test Strips	0129 03 / abs/03/01/2023 0070 / 2023 / 01/

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# _____



Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 v1)

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

RQ - 2023-02-27-48		Collected By:		Terry Riordan, Victoria Schwartz						
Customer:	WQAP	Field Report Prepared By:		Victoria Schwartz						
Project ID:	BLOOM_RESP	Sampling Agency:		CEROC						
Location: Deep Lake - N Shore			Comments: Sunny with cool temps and a breeze. Algae specks still visible in water column but overall lake appearance has visually improved with a clear surface							
Field ID: HABCE0149_DeepLake			Coordinates: 28.61450, -81.25312							
WIN Secondary Resource Type: Lake			Collection Equip: WaterBottle							
WIN ID: HABCE0149			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 (PPT)
03/16/2023	11:03	94.9	8.33	21.7	6.71	0.3	1.3	1.3	146.6	0.07
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		
Algal ID (PT-50mL)	☐ ALGAL-ID			☐ Ice						
Bloom ID (PT-50mL)	☒ BLOOM-ID			☒ Ice			1	A		
Chlorophyll (BP-1L)	☒ CHLSUITE-W			☒ Ice			1	B		
Toxins (P-125/BG-250)	☒ 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		
	SA3013020			1/25/24						
Filtered Nutrients (P125mL)	☒ W-PO4-F			☒ Field Filtered 0.45um Filter		☒ Ice	1	B		
	Filter Lot # 17413308									
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C			☐ Ice ☐ Lugols						
Relinquished By:	Date/Time	Number of Coolers Shipped			Received By:	Date/Time				
Victoria Schwartz	03/16/2023 04:00	2			A.SHAIK	03/20/2023 / 09:30				

Note: Meter DO CCV did not pass



Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 v1)

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

RQ - 2023-02-27-48		Collected By:		Terry Riordan, Victoria Schwartz						
Customer:	WQAP	Field Report Prepared By:		Victoria Schwartz						
Project ID:	BLOOM_RESP	Sampling Agency:		CEROC						
Location: Sunset Lake - W Shore			Comments: Sunny.							
Field ID: HABCE0165_SunsetLake			Coordinates: 28.53666, -81.41304							
WIN Secondary Resource Type: Lake			Collection Equip: WaterBottle							
WIN ID: HABCE0165			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)
03/16/2023	14:25	125	10.58	23.7	7.88	0.2	0.4	0.4	159.8	0.07
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		
Algal ID (PT-50mL)	☐ ALGAL-ID			☐ Ice						
Bloom ID (PT-50mL)	☒ BLOOM-ID			☒ Ice			1	A		
Chlorophyll (BP-1L)	☒ CHLSUITE-W			☒ Ice			1	B		
Toxins (P-125/BG-250)	☒ 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		
	SA3013020			1/25/24						
	Acid Lot:			Exp:						
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice		1	B		
			Filter Lot # 17413308							
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C			☐ Ice ☐ Lugols						
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:		Date/Time				
Victoria Schwartz	03/16/2023 16:00	2		A.SHAIK		03/20/2023 / 09:30				

Login Checklist

RQ- 2023 - 02 - 27 - 48

Login Station ID: # 2

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 03/17/2023 / 10:00

*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	
0.3c				5		x			5859 4733 6781

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: 03/17/2023

Event contains NCRs (Y/N)? N

EventID:

WQAP - 2023 - 03 - 17 - 0 4

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	IRTG # 2 EXP:10/17/2023
pH Test Strips 0 – 6	LOT#223819AV EXP:8/30/23
pH Paper 0 – 3	N/A
pH Paper 0 – 13	LOT#207621 EXP:3/15/2024
Chlorine Test Strips	0129 03 / abs/03/01/2023 0070 / 2023 / 02/

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# _____



Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 v1)

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

RQ - 2023-02-27-48		Collected By:		Terry Riordan, Victoria Schwartz						
Customer:	WQAP	Field Report Prepared By:		Victoria Schwartz						
Project ID:	BLOOM_RESP	Sampling Agency:		CEROC						
Location: Louise Lake - NW Lobe			Comments: Sunny with cool temps and a breeze. Detached filamentous algae accumulating along surface of shoreline. Green algae specks observed throughout water column							
Field ID: HABCE0183_LouiseLake			Coordinates:	28.89199, -81.20190						
WIN Secondary Resource Type: Lake			Collection Equip:	WaterBottle						
WIN ID: HABCE0183			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 (PPT)
03/16/2023	12:42	84.8	7.41	21.9	6.33	0.3	2.1	1.2	106.6	0.05
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			
Algal ID (PT-50mL)	☐ ALGAL-ID			☐ Ice						
Bloom ID (PT-50mL)	☒ BLOOM-ID			☒ Ice		1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W			☒ Ice		1	B			
Toxins (P-125/BG-250)	☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN			☒ Ice		1	B			
	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP			☒ Ice ☒ H2SO4	☒ <2	1	B			
Preserved Nutrients (500mL HDPE)	SA3013020			1/25/24						
	Acid Lot:			Exp:						
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter		☒ Ice		1	B			
		Filter Lot # 17413308								
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C			☐ Ice	☐ Lugols					
Relinquished By:	Date/Time	Number of Coolers Shipped			Received By:	Date/Time				
Victoria Schwartz	03/16/2023 16:00	2			A.SHAIK	03/17/2023 / 10:00				

Date of Request: 14-FEB-2023
 Created By: BOMAN_L On: 14-FEB-2023
 Modified By: JASROTIA_P On: 17-FEB-2023
 Customer: WQAP
 Project: BLOOM-RESP
 Division: Division of Environmental Assessment and Restoration
 District: Central
 Event Description: Algal Bloom Response - CEROC

Send Coolers To:

Phone: 407-897-4181
 3319 Maguire Blvd Ste 232

 Orlando, FL 32803
 Attn: Leif Boman
 Cooler Ship EMail: Leif.Boman@FloridaDep.gov

Priority: 1
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 16-FEB-2023
 Biology Request Reviewed By: JASROTIA_P On: 17-FEB-2023
 Sampling Kit Required: YES Ship on: 24-FEB-2023
 Sampling Kit Shipped: YES On: 20-FEB-2023
 Sampling Kit Packed By: KREUCH_B
 Preservatives Needed: NO
 Date to Receive Samples: 27-FEB-2023
 Logged In By: SHAIK_A On: 17-MAR-2023

Send Final Report To:

3319 Maguire Blvd. Suite 232

 Orlando, FL 32803
 Attn: Matt Bearden
 Report Notification EMail: Matthew.Bearden@FloridaDEP.gov

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

-two coolers please-

Bottle Group A (Biological) With 6 Samples:

Bottle Type: PT-50ML Number of Bottles: 6 Preserved With: ICE
 BLOOM-ID Template: DEFAULT (SOP-AB18) 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: P-125ML Number of Bottles: 6 Preserved With: ICE
 W-MCYST-AA Template: DEFAULT (EPA 8321B) Microcystins in water matrices by HPLC/MS/MS
 W-SAXTN-MS Template: DEFAULT (EPA 8321B) Saxitoxin in water matrices by HPLC/MS/MS

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

Bottle Group B (Water) With 6 Samples:

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