

RQ-2022-11-21-38

## Login Checklist

Login Station ID: 5

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 12/14/22 @ 9:55

| *Cooler Temperature | Samples Frozen? | * All Samples in Cooler Preserved with |                  | Number of Sample Containers in Cooler | Evidence Tape |          |          |     | Waybill Tracking # |
|---------------------|-----------------|----------------------------------------|------------------|---------------------------------------|---------------|----------|----------|-----|--------------------|
|                     |                 | YES                                    | HNO <sub>3</sub> |                                       | Formalin      | Present? | *Intact? | Yes |                    |
| 0.5                 |                 |                                        |                  | 1                                     |               | X        |          |     | 585947303816       |
|                     |                 |                                        |                  |                                       |               |          |          |     |                    |
|                     |                 |                                        |                  |                                       |               |          |          |     |                    |
|                     |                 |                                        |                  |                                       |               |          |          |     |                    |
|                     |                 |                                        |                  |                                       |               |          |          |     |                    |
|                     |                 |                                        |                  |                                       |               |          |          |     |                    |

## COOLER CHECK

\*All samples received on ice unless otherwise noted. HNO<sub>3</sub> 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/ FieldSheet(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 XContainers 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: C-P

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 &lt; 2.0?

Yes X No NA X Init: C-P

\*\*W-1-4-DIOX (Green dot on container) preserved to pH &lt; 4.0?

Yes \_\_\_\_\_ No NA X Init: C-P

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

Coolers Unpacked/Checked by: C-PDate: 12/14/22 Event contains NCRs(Y/N)? NEvent ID: CEN-DIST-2022-12-14-02 (SMP)  
Date Received: 14-DEC-2022 09:55

## Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

|                          |                    |
|--------------------------|--------------------|
| Infrared Thermometer ID: | 221426058 10/17/23 |
| pH Test Strips 0 – 6     | 223819AV 08/30/23  |
| pH Paper 0 – 3           | NA                 |
| pH Paper 0 – 13          | 210620 4/15/2023   |
| Chlorine Test Strips     | 0070 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# \_\_\_\_\_**

**From:** Rankin, Amelia  
**To:** Reaves, Shawn D  
**Cc:** Klug, Kyle; Ayres, Joshua; Cobb, Devan R.; Jasrotia, Puja  
**Subject:** FW: CEN-DIST-2022-12-14-01  
**Date:** Wednesday, March 22, 2023 5:07:28 PM  
**Attachments:** image002.png  
image003.png

Hi,

Based on Kathryn March's messages, below, would you please correct the Field ID and STORET Station for the Algal sample in CEN-DIST-2022-12-14-02?

Thanks!  
Amelia

Correct in Event CEN-DIST-2022-12-14-01:

| Request ID: RQ-2022-11-21-38    |  | Customer: CEN-DIST |             | Project: SMP  |                          | PMAS:    |               |             |              |          |
|---------------------------------|--|--------------------|-------------|---------------|--------------------------|----------|---------------|-------------|--------------|----------|
|                                 |  | Station            | Lab Comment | Field Comment | Site Location            | Field ID | Preservation  | Matrix      | STORET St... | Latitude |
| > Event: CEN-DIST-2022-11-22-01 |  | 5-2                |             |               | Lake Terrace SW of Ce... | G4CE0153 | ICE           | W-SURF-F... | G4CE0153     |          |
| > Event: CEN-DIST-2022-11-22-02 |  | 4-4                |             |               | Lake Terrace SW of Ce... | G4CE0153 | ICE And H2... | W-SURF-F... | G4CE0153     |          |
| ▼ Event: CEN-DIST-2022-12-14-01 |  | 4-1                |             |               | Lake Terrace SW of Ce... | G4CE0153 | FILTER-ICE    | W-SURF-F... | G4CE0153     |          |
| ▼ Job: TLH-2022-12-14-29        |  |                    |             |               |                          |          |               |             |              |          |
| > Sample: 2375057               |  |                    |             |               |                          |          |               |             |              |          |
| > Sample: 2375058               |  |                    |             |               |                          |          |               |             |              |          |
| > Sample: 2375059               |  |                    |             |               |                          |          |               |             |              |          |
| ▼ Job: TLH-2022-12-14-31        |  |                    |             |               |                          |          |               |             |              |          |
| > Sample: 2375068               |  |                    |             |               |                          |          |               |             |              |          |
| ▼ Job: TLH-2022-12-14-33        |  |                    |             |               |                          |          |               |             |              |          |
| > Sample: 2375069               |  |                    |             |               |                          |          |               |             |              |          |
| > Event: CEN-DIST-2022-12-14-02 |  |                    |             |               |                          |          |               |             |              |          |

Incorrect in Event CEN-DIST-2022-12-14-02:

|                                                                                                                                                                                                                                                                                                                                                    |  |                    |             |               |                          |          |              |             |              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|-------------|---------------|--------------------------|----------|--------------|-------------|--------------|--|
| Request ID: RQ-2022-11-21-38                                                                                                                                                                                                                                                                                                                       |  | Customer: CEN-DIST |             | Project: SMP  |                          | PMAS:    |              |             |              |  |
| <div><div>&gt; Event: CEN-DIST-2022-11-22-01</div><div>&gt; Event: CEN-DIST-2022-11-22-02</div><div>&gt; Event: CEN-DIST-2022-12-14-01</div><div>&gt; Event: CEN-DIST-2022-12-14-02</div><div><div>▼ Job: TLH-2022-12-14-39</div><div><div>▼ Sample: 2375120</div><div><div>Test: DTY-QN-C</div><div>Test: PKD-QN-BV</div></div></div></div></div> |  | Station            | Lab Comment | Field Comment | Site Location            | Field ID | Preservation | Matrix      | STORET St... |  |
|                                                                                                                                                                                                                                                                                                                                                    |  | 5Y                 |             |               | Lake Terrace SW of Ce... | G2CE0097 | Lugols       | W-SURF-F... | G2CE0097     |  |

**From:** March, Kathryn W  
**Sent:** Wednesday, December 28, 2022 4:12 PM  
**To:** Klug, Kyle <Kyle.Klug@FloridaDEP.gov>  
**Subject:** RE: CEN-DIST-2022-12-14-01

Thank you! I am really not sure what happened, especially since the tablet generated the correct WIN station name and coordinates, but the incorrect WIN ID, since that information is all pulled from WIN together.

**From:** Klug, Kyle <Kyle.Klug@FloridaDEP.gov>  
**Sent:** Wednesday, December 28, 2022 3:55 PM  
**To:** March, Kathryn W <Kathryn.W.March@FloridaDEP.gov>  
**Subject:** RE: CEN-DIST-2022-12-14-01

Don't worry that makes sense! The corrections have already been made and our file has been updated.

Thank you,  
Kyle

**From:** March, Kathryn W <Kathryn.W.March@FloridaDEP.gov>  
**Sent:** Wednesday, December 28, 2022 15:49  
**To:** Klug, Kyle <Kyle.Klug@FloridaDEP.gov>  
**Subject:** RE: CEN-DIST-2022-12-14-01

Thank you! G4CE0153 is correct for Lake Terrace SW of Center, RQ-2022-11-21-38. The WIN station name on the field sheet is correct, but the WIN ID is listed as G2CE0097 (which is actually for Lake Ann, which was also sampled that day under RQ-2022-12-12-38). Does that make sense?

**From:** Klug, Kyle <Kyle.Klug@FloridaDEP.gov>  
**Sent:** Wednesday, December 28, 2022 3:44 PM  
**To:** March, Kathryn W <Kathryn.W.March@FloridaDEP.gov>  
**Cc:** Cobb, Devan R. <Devan.R.Cobb@dep.state.fl.us>  
**Subject:** RE: CEN-DIST-2022-12-14-01

Kathryn,

I can check the bottle, however if you are confirming that G4CE0153 is correct then it will be alright if the bottle doesn't match. I will update LIMS and add this correspondence to our scan file.

Thank you,  
Kyle

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**From:** March, Kathryn W <[Kathryn.W.March@FloridaDEP.gov](mailto:Kathryn.W.March@FloridaDEP.gov)>  
**Sent:** Tuesday, December 27, 2022 16:11  
**To:** Cobb, Devan R. <[Devan.R.Cobb@dep.state.fl.us](mailto:Devan.R.Cobb@dep.state.fl.us)>; Klug, Kyle <[Kyle.Klug@FloridaDEP.gov](mailto:Kyle.Klug@FloridaDEP.gov)>  
**Subject:** CEN-DIST-2022-12-14-01

Hi Devan and Kyle,

We have some issues with two of our field sheets from 12/13. I really don't understand how this happened on our tablets, at all, but we somehow submitted two field sheets to the lab with the same WIN ID, so one is logged into LIMS wrong. CEN-DIST-2022-12-14-01 in LIMS has the correct date, time, and parameters, but the Win ID/Station Field ID/Station ID is wrong. I can fix this in the DMT, but I know that doesn't affect the bottles. I'm inclined to believe that this is a field sheet issue and that the bottles are labeled correctly. Is there a way to check this? They should be G4CE0153, although the field sheet says G2CE0097.

Thank you!

**Kathryn March**  
Environmental Specialist II  
Watershed Management and Monitoring  
Florida Dept. of Environmental Protection  
Tel: (407) 897-4174

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CHAIN OF CUSTODY FORM

**Date:** 12/13/2022  
**Customer:** CEN-DIST  
**RQ:** RQ-2022-11-21-38  
**Collected By:** Leif Boman, Katie March  
**Sampling Agency:** FDEP  
**Project ID:** SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL  
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

**Number of Coolers Shipped:** 1

**Delivery Method:** FedEx

**FIELD ID (Labels) submitted under this RO for this collection date.**

| Site Location             | Field ID/WIN ID                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------|
| Lake Terrace SW of Center | <br>G2CE0097 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 12/13/2022  
1600 EST

**THIS SECTION TO BE COMPLETED BY LABORATORY**

Rec'd/Inspected By: *Chi P.*

Rec'd/Inspected  
Date: 12-14-22

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RQ-2022-11-21-38

Customer: FDEP

Project ID: SMP

Collected By: Leif Boman, Katie March

Field Report Prepared by: Leif Boman, Katie March

Sampling Agency: FDEP

WIN ID/Field ID:  
WIN ID/Field ID: G2CE0097

Comments: Please log in PKD-QN-BV & DTY-QN-C under a separate event with priority 12, Bottle Group - B. |

Location: Lake Terrace SW of Center

Matrix: Fresh

(Check One)

☒ Grab

☐ Composite

| Date and Time {EST}                | DO (mg/L)         | DO (%SAT)                                                                               | Temp. °C                                 | pH                                | Sample Depth (m) | Secchi Depth                           | Total Depth (m)                  | Sp COND ( $\mu\text{hos/cm}$ ) | Salinity (PPTh) |
|------------------------------------|-------------------|-----------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------|------------------|----------------------------------------|----------------------------------|--------------------------------|-----------------|
| 12/13/2022<br>1256                 | 9.3               | 107.4                                                                                   | 22.5                                     | 7.24                              | 0.3              | 1.4                                    | 7.2                              | 156.3                          | 0.07            |
| Parameter Suite                    | Parameter Methods |                                                                                         |                                          |                                   | Preservation     |                                        | pH Check                         | # Bottles sent to Lab          | Bottle Group    |
| Preserved Nutrients (P-500ML)      | X                 | W-NH <sub>3</sub> / W-NO <sub>2</sub> NO <sub>3</sub> / W-TKN / W-TOC / W-S-A-TP        |                                          |                                   | X                | Ice X H <sub>2</sub> SO <sub>4</sub> * | X <2                             | 1                              | A               |
|                                    |                   | Lot # SA2229010                                                                         | Exp:                                     | 08/30/2023                        |                  |                                        |                                  |                                |                 |
| Metals (P-500ML)                   | x                 | W-ICPMS                                                                                 | X                                        | W-ICP                             | X                | W-HARD                                 | X Ice X HNO <sub>3</sub> *       | X <2                           | 1 A             |
|                                    |                   | Lot # NA1105100                                                                         | Exp:                                     | 06/07/2023                        |                  |                                        |                                  |                                |                 |
| Filtered Nutrients (P125ML)        | X                 | W-PO <sub>4</sub> -F                                                                    | X                                        | Field Filtered 0.45 um Filter     |                  | X Ice                                  |                                  | 1                              | A               |
|                                    |                   | Filter Lot # 17413308                                                                   | Syringe Lot # 2090604                    |                                   |                  |                                        |                                  |                                |                 |
| BOD (BP-1L)                        |                   | OV-BODUNIN                                                                              |                                          |                                   |                  | Ice                                    |                                  |                                |                 |
| Chlorophyll (BP-1L)                | X                 | CHLSUITE-W                                                                              |                                          |                                   | X                | Ice                                    |                                  | 1                              | A               |
| Physical/Aggregate (Fresh) (P-1L)  | X                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-C / W-COLOR / W-SO <sub>4</sub> -IC / W-TDS |                                          |                                   | X                | Ice                                    |                                  | 1                              | A               |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                                    |                                          |                                   |                  | Ice                                    |                                  |                                |                 |
| Macroinvertebrates (PJ-2L)         |                   | MJ-FW-QLDC                                                                              | Formalin Lot #                           |                                   |                  | Formalin                               |                                  |                                |                 |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                                |                                          |                                   |                  | Ice                                    |                                  |                                |                 |
| Microbiology (Contract Lab Bottle) |                   | E Coli                                                                                  | F Coli                                   | Enterococci                       |                  | Ice                                    |                                  |                                |                 |
|                                    |                   | Contract Lab                                                                            |                                          |                                   |                  |                                        |                                  |                                |                 |
| Molecular (QPCR-P-500ML)           |                   | PCR-HF183                                                                               | PCR-BacR                                 | PCR-DG3                           |                  | Ice                                    |                                  |                                |                 |
|                                    |                   | PCR-GULL2                                                                               | PCR-GFD                                  |                                   |                  |                                        |                                  |                                |                 |
| Tracers (BG-500ML)                 |                   | W-E8321-DI                                                                              | W-E8321-MS                               |                                   |                  | Ice                                    |                                  |                                |                 |
| Pesticides (BG-500ML) (BG-1L)      |                   | W-E8321-DI                                                                              | W-E8321-MS                               | W-P5NP-TQ                         |                  | Ice                                    | MCAA Exp.                        | MCAA Lot#                      |                 |
|                                    |                   | W-PCL-TQ-R                                                                              | W-CARB-AA (5 ml of MCAA Buffer Solution) | W-CT-CL-R                         |                  |                                        |                                  |                                |                 |
|                                    |                   | W-TR-SQ-R                                                                               | W-PCB-TQ-R                               |                                   |                  |                                        |                                  |                                |                 |
| Phytoplankton                      | X                 | DTY-QN-C                                                                                | X                                        | PKD-QN-BV                         | X                | Ice                                    |                                  | 1                              | B               |
| DOC                                |                   | W-DOC                                                                                   |                                          | Field Filtered 0.45 um Filter     |                  | Ice                                    | H <sub>2</sub> SO <sub>4</sub> * | <2                             |                 |
|                                    |                   |                                                                                         |                                          | Acid Preservative Expiration Date |                  |                                        |                                  |                                |                 |
|                                    |                   |                                                                                         |                                          | Acid Preservative Lot Number      |                  |                                        |                                  |                                |                 |

Date of Request: 14-NOV-2022  
 Created By: BEARDEN\_M On: 14-NOV-2022  
 Modified By: AYRES\_J On: 15-NOV-2022  
 Customer: CEN-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Central District  
 Event Description: Lakes: Florida, Ellen, Asher, Alma

**Send Coolers To:**

Phone: 407-897-4123  
 FL Dept. of Environmental Protection  
 3319 Maguire Blvd., Suite 232  
 Orlando, FL 32803-3767  
 Attn: Matthew Bearden  
 Cooler Ship EMail: matthew.bearden@floridadev.gov

Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: AYRES\_J On: 15-NOV-2022  
 Biology Request Reviewed By: AYRES\_J On: 15-NOV-2022  
 Sampling Kit Required: NO Ship on:  
 Sampling Kit Shipped:  
 Sampling Kit Packed By:  
 Preservatives Needed: NO  
 Date to Receive Samples: 22-NOV-2022  
 Logged In By: ROBERTS\_Z On: 22-NOV-2022

**Send Final Report To:**

FL Dept. of Environmental Protection  
 3319 Maguire Blvd., Suite 232  
 Orlando, FL 32803-3767  
 Attn: Matthew Bearden  
 Report Notification EMail:  
 matthew.bearden@floridadev.gov; victoria.schwartz@floridadev.gov

Comments: Please log in PKD-QN-BV & DTY-QN-C under a separate event with priority 12, Bottle Group - B  
 Terrace: A and B  
 Lucerne, Giles, Emerald: B and C

**Bottle Group A (Water) With 1 Samples:**

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L    | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| ALKALINITY           | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                                                                     |
| TURBIDITY            | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                                             |
| W-CL-IC              | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                                                              |
| W-COLOR              | Template: DEFAULT    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                                                             |
| Color (true)         |                      |                                                                                                                                                |
| W-F                  | Template: DEFAULT    | (SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                        |
| W-SO4-IC             | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                                                               |
| W-TDS                | Template: DEFAULT    | (SM 2540 C-2015) Total Dissolved Solids in aqueous matrices                                                                                    |
| W-TSS                | Template: DEFAULT    | (SM 2540 D-2015) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                                                |
| Bottle Type: BP-1L   | Number of Bottles: 1 | 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: 1 | Preserved With: HNO <sub>3</sub>                                                                                                               |
| W-HARD               | Template: DEFAULT    | (SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO <sub>3</sub>                                              |
| Hardness             |                      |                                                                                                                                                |
| W-ICP                | Template: SMP-FRESH  | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium              |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| Potassium            |                      |                                                                                                                                                |
| Sodium               |                      |                                                                                                                                                |
| Strontium            |                      |                                                                                                                                                |
| Tin                  |                      |                                                                                                                                                |
| Titanium             |                      |                                                                                                                                                |

**Bottle Group A (Water) With 1 Samples:**

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-ICP                | Template: SMP-FRESH  | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Vanadium             |                      |                                                                                                                                                |
| Zinc                 |                      |                                                                                                                                                |
| W-ICPMS              | Template: DEFAULT    | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |
| Barium               |                      |                                                                                                                                                |
| Beryllium            |                      |                                                                                                                                                |
| Boron                |                      |                                                                                                                                                |
| Cadmium              |                      |                                                                                                                                                |
| Chromium             |                      |                                                                                                                                                |
| Cobalt               |                      |                                                                                                                                                |
| Copper               |                      |                                                                                                                                                |
| Lead                 |                      |                                                                                                                                                |
| Manganese            |                      |                                                                                                                                                |
| Molybdenum           |                      |                                                                                                                                                |
| Nickel               |                      |                                                                                                                                                |
| Selenium             |                      |                                                                                                                                                |
| Silver               |                      |                                                                                                                                                |
| Thallium             |                      |                                                                                                                                                |

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | 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                         |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                         |
| Bottle Type: P-125ML | Number of Bottles: 1 | 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 B (Water) With 4 Samples:**

|                    |                      |                                                                                               |
|--------------------|----------------------|-----------------------------------------------------------------------------------------------|
| Bottle Type: BP-1L | Number of Bottles: 4 | Preserved With: Lugols                                                                        |
| DTY-QN-C           | Template: DEFAULT    | (SOP-AB05_1) No. of diatom taxa of quantitative phytoplankton sample.                         |
| PKD-QN-BV          | Template: DEFAULT    | (SOP-AB05) No. of wet taxa of quantitative phytoplankton sample w/speciation and cell counts. |

**Bottle Group C (Water) With 3 Samples:**

|                      |                      |                                                                                                              |
|----------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-125ML | Number of Bottles: 3 | 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 Type: P-1L    | Number of Bottles: 3 | Preserved With: ICE                                                                                          |
| ALKALINITY           | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                                |
| TURBIDITY            | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                           |
| W-CL-IC              | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                            |
| W-COLOR              | Template: DEFAULT    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                           |
| Color (true)         |                      |                                                                                                              |
| W-F                  | Template: DEFAULT    | (SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)      |
| W-SO4-IC             | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                             |
| W-TDS                | Template: DEFAULT    | (SM 2540 C-2015) Total Dissolved Solids in aqueous matrices                                                  |
| W-TSS                | Template: DEFAULT    | (SM 2540 D-2015) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample              |
| Bottle Type: BP-1L   | Number of Bottles: 3 | 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: 3 | 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                                             |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                                             |



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