# Login Checklist

RQ- 2021 - 03 - 08 - 67

Login Station ID: # 3

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 03/12/2021 / 10:20

| *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 | |
| 3.6c | | | | 7 | | x | | | 9293 8010 1752 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

**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:** 03-12-2021 **Event contains NCRs (Y/N)?** N

**Event ID:** CEN-DIST - 2021 - 03 - 12 - 03

# Login Checklist

| Login Preservation Equipment | Lot # & Exp: Date |
|---|---|
| Infrared Thermometer ID: | IRTG # 3 EXP:10/28/2021 |
| pH Test Strips 0 – 6 | 213316 BV EXP:05/15/21 |
| pH Paper 0 – 3 | N/A |
| pH Paper 0 – 13 | 231019 EXP:11/01/2021 |
| Chlorine Test Strips | 0261 2023 / 05 |

**Additional Comments:**

**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: _____

# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
# CHAIN OF CUSTODY FORM

**Date:** 3/11/2021
**Customer:** CEN-DIST
**RQ:** RQ-2021-03-08-67

**Collected By:** Elizabeth Bates, 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

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

| Site Location | Field ID/WIN ID |
|---|---|
| Lake Lotta at Center of southern lobe | G2CE0093 |
| FB | FB_03112021 |

**RELINQUISHED BY(SIGNATURE):** **DATE/TIME:** 03/11/2021 16:00

**THIS SECTION TO BE COMPLETED BY LABORATORY**

**Rec'd/Inspected By:** A.SHAIK **Rec'd/Inspected Date:** 03-12-2021

SHIPPED WITH:
RQ-2021-02-15-09
RQ-2021-02-15-07

**RQ-**2021-03-08-67
**Customer:** WQAP
**Project ID:** SMP

Collected By: Elizabeth Bates, Katie March
Field Report Prepared By: Elizabeth Bates
Sampling Agency: FDEP

Place Label Here

**WIN ID/Field ID:** G2CE0093

**Location:** Lake Lotta at Center of southern lobe

**Comments:**

SHIPPED WITH:
RQ-2021-02-15-09
RQ-2021-02-15-07

**Matrix:** Fresh

(Check one) ☒ GRAB ☐ COMPOSITE

| Date | Time | DO (mg/L) | DO (%SAT) | Temp. (C⁰) | pH | Sample Depth (m) | Secchi Disk (m) | Total Depth (m) | Sp COND (µmhos/cm) | Salinity (PPTh) |
|---|---|---|---|---|---|---|---|---|---|---|
| 3/11/2021 | 1119 EST | 8.46 | 92.5 | 19.6 | 6.78 | 0.3 | 1.1 ☐ VOB (S) | 3.5 | 178.2 | 0.08 |
| | 1122 | 8.28 | 90 | 19.4 | 6.72 | 2 | Central Lab please use top row for login purposes | | 178.1 | 0.08 |
| | 1125 EST | 7.26 | 78.3 | 19 | 6.51 | 3 | | | 178.1 | 0.08 |

| Parameter Suite | Parameter Methods | Preservation | pH Check | # Bottles sent to Lab | Bottle Group |
|---|---|---|---|---|---|
| Preserved Nutrients (P-500ML) | ☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP<br>Lot # SA0293040 Exp: | ☒ Ice ☒ $H_2SO_4$* | ☒ <2 | 1 | B<br>10/19/21 |
| Metals (P-500ML) | ☒ W-ICPMS ☒ W-ICP ☒ W-HARD<br>Lot # NA0344060 Exp: | ☒ Ice ☒ $HNO_3$* | ☒ <2 | 1 | B<br>01/04/22 |
| Filtered Nutrients (P125ML) | ☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter<br>Filter Lot # 17135566<br>Syringe Lot # 0079900 | ☒ Ice | | 1 | B |
| Chlorophyll (BP-1L) | ☒ CHLSUITE-W | ☒ Ice | | 1 | B |
| Physical/Aggregate (Fresh) (P-1L) | ☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS | ☒ Ice | | 1 | B |
| Physical/Aggregate (Marine) (P-1L) | ☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY | ☐ Ice | | | |
| Macroinvertebrates (PJ-2L) | ☐ MI-FW-QLDC | ☐ Formalin | | | |
| Periphyton (PT-50ML) | ☐ ALGAE-ID | ☐ Ice | | | |
| Microbiology (Contract Lab Bottle) | ☐ E Coli ☐ F Coli ☐ Enterococci<br>☐ Contract Lab | ☐ Ice | | | |
| Molecular (QPCR-P-500ML) | ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3<br>☐ PCR-GULL2 ☐ PCR-GFD ☐ | ☐ Ice | | | |
| Tracers (BG-500ML) | ☐ W-E8321-DI ☐ W-E8321-MS | ☐ Ice | | | |
| Pesticides (BG-500ML) (BG-1L) | W-E8321-DI / WE8321-MS / W-PSNP-TQ / W-CT-CL-R<br>W-PCL-SQ-R / W-CARB-AA (5 ml of MCAA** Buffer Solution) / W-DIELDRIN | ☐ Ice | | | |
| Phytoplankton/Periphyton | DTM-QL-C / PEN-QL-C / x DTY-QN-C / PKD-QN-C<br>DTM-QN-C / PRN-QN-C / x PKD-QN-BV | ☒ Ice | | 1 | C |

Name:
Elizabeth Bates
Katie March

Signature: E. Bates

Date: 03/11/2021

*2.0 ml of Preservative used unless noted otherwise.
**MCAA: Monochloroacetic acid buffer solution

Lab Page_____of _____

**RQ-** 2021-03-08-67
**Customer:** WQAP
**Project ID:** SMP

**Collected By:** Elizabeth Bates, Katie March
**Field Report Prepared By:** Elizabeth Bates, Katie March
**Sampling Agency:** FDEP

# BLANK

**Field ID:** FB 03112021

**Comments:**

**Matrix:** FB

(Check one) ☐ COMPOSITE ☒ GRAB

| Date | Time |
|---|---|
| 3/11/2021 | 1134 EST |

**DI Source:** Lab

| Parameter Suite | Parameter Methods | Preservation | pH Check | # Bottles sent to Lab | Bottle Group |
|---|---|---|---|---|---|
| Preserved Nutrients (P-500ML) | ☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP | ☐ Ice ☐ H2SO4 | ☐ <2 | | |
| | Lot # ____ Exp: | | | | |
| Metals (P-500ML) | ☒ W-ICPMS ☒ W-ICP | ☒ Ice ☒ H2SO4 | ☒ <2 | 1 | A |
| | Lot # NA0344060 Exp: | 01/04/22 | | | |
| Filtered Nutrients (P125ML) | ☐ W-PO4-F Filter ☐ Field Filtered 0.45 µm | ☐ Ice | | | |
| | Filter Lot # ____ | | | | |
| | Syringe Lot # ____ | | | | |
| Physical/Aggregate (Fresh) (P-1L) | ☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-IC / TDS | ☐ Ice | | | |
| Physical/Aggregate (Marine) (P-1L) | ☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY | ☐ Ice | | | |
| Tracers (BG-500ML) | ☐ W-E8321-DI ☐ W-E8321-MS | ☐ Ice | | | |
| Pesticides (BG-500ML) (BG-1L) | ☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-DIELDRIN | ☐ Ice | | | |
| | | | | | |

| Name: | Signature: | Date: |
|---|---|---|
| Elizabeth Bates<br>Katie March | E. Bates | 03/11/2021 |

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

# RQ-2021-03-08-67

Printed: 3/12/2021 12:14:13



Date of Request: 09-MAR-2021
Created By: BOMAN_L On: 09-MAR-2021
Modified By: JASROTIA_P On: 11-MAR-2021
Customer: CEN-DIST
Project: SMP
Division:
District: Central District
Event Description: Lake Lotta + metals blank

**Send Coolers To:**

Phone: 407-897-4178
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Natalie Ayala
Cooler Ship EMail: natalie.ayala@dep.state.fl.us

Priority: 3
Event Status: R
Criminal Investigation: NO
Chemistry Request Reviewed By: WATTS_J On: 11-MAR-2021
Biology Request Reviewed By: JASROTIA_P On: 11-MAR-2021
Sampling Kit Required: NO Ship on:
Sampling Kit Shipped:
Sampling Kit Packed By:
Preservatives Needed: NO
Date to Receive Samples: 09-MAR-2021
Logged In By: SHAIK_A On: 12-MAR-2021

**Send Final Report To:**

FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Kalina Warren
Report Notification EMail: natalie.ayala@dep.state.fl.us

Comments: Receiving, log algae samples in under separate Event, Priority 12

Bottle Group A: Metals Blank
Bottle Group B: Lake Lotta
Bottle Group C: Lotta Phyto

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

Bottle Type: P-500ML Number of Bottles: 1 Preserved With: HNO3

W-HARD Template: DEFAULT (SM 2340B) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3

Hardness

W-ICP Template: (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Barium
Calcium
Iron
Magnesium
Manganese
Potassium
Sodium
Zinc

W-ICPMS Template: (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

*Boron
Aluminum
Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Nickel
Selenium

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

Bottle Type: P-500ML Number of Bottles: 1 Preserved With: HNO3

| | | |
|---|---|---|
| W-ICPMS | Template: | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects |

Silver
Thallium

## Bottle Group B (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 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 | (SM 2120 B-2011) 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-2011) Total Dissolved Solids in aqueous matrices |
| W-TSS | Template: DEFAULT | (SM 2540 D-2011) 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: HNO3

| | | |
|---|---|---|
| W-HARD | Template: DEFAULT | (SM 2340B) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3 |
| Hardness | | |
| W-ICP | Template: | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |

Barium
Calcium
Iron
Magnesium
Manganese
Potassium
Sodium
Zinc

| | | |
|---|---|---|
| W-ICPMS | Template: | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects |

*Boron
Aluminum
Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
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 C (Water) With 1 Samples:

Bottle Type: BP-1L Number of Bottles: 1 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. |

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