

**Klug, Kyle**

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**From:** Butera, Frank  
**Sent:** Tuesday, February 15, 2022 6:02 PM  
**To:** Lab.Receiving  
**Subject:** RQ-2022-02-14-56  
**Attachments:** RQ-2022-02-14-56\_CoverSheetComplete\_02152022.pdf

Hi,

RQ-2022-02-14-56 was shipped in 2 coolers via UPS 02/15/2022 by the NWROC. I mistakenly printed the wrong Win-ID for G3NW0447 (Roberts Lake) on the sample label and had to strike through and correct the Win-ID number on the electronic cover sheet and field sheet. The stickers on the sample containers were replaced with the correct labels. (G3NW0447).

Frank

Frank Butera  
FL Department of Environmental Protection  
Division Environmental Assessment and Restoration  
Northwest Regional Operating Center  
Environmental Specialist III  
Frank.Butera@floridaDEP.gov  
Office: (850) 595-0572

# Login Checklist

RQ- 2022-02-14-56

Login Station ID: #5

Shipping Method: ~~FedEx~~ UPS | HD | Greyhound

Date/Time of Receipt: 2/ 16 /22 @ 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 <sub>3</sub>                       | Formalin |                                       | Yes           | No     | Yes      | No |                                          |
| -0.1<br>-0.3        |                 |                                        |          | 9<br>8                                |               | ✓<br>✓ |          |    | 1214R2178494955306<br>1214R2178495166425 |
|                     |                 |                                        |          |                                       |               |        |          |    |                                          |
|                     |                 |                                        |          |                                       |               |        |          |    |                                          |
|                     |                 |                                        |          |                                       |               |        |          |    |                                          |
|                     |                 |                                        |          |                                       |               |        |          |    |                                          |

## 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 ☒ No ☐

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

Yes ☐ No ☒

## CONTAINER CHECK

Evidence Tape on Bottles?

Yes ☐ No ☐ NA ☒

Evidence Tape intact? Yes ☐ No ☐

If Criminal, photographs taken?

Yes ☐ No ☐

Containers intact? Yes ☒ No ☐

Caps on tight?

Yes ☒ No ☐

Sufficient Sample Volume:

Yes ☒ 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 ☒ Init: hkh

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< 2.0?

Yes ☒ No ☐ NA ☐ Init: hkh

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

Yes ☐ No ☐ NA ☒ Init: hkh

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

Coolers Unpacked/Checked by: hkh

Date: 2/ 16 /22

Event contains NCRs (Y/N)? N

Event ID: Niceville Lake Run  
NW-DIST-2022-02-16-02 (SMP)

Date Received: 16-FEB-2022 10:00

## Login Checklist

### Login Preservation Equipment

### Lot # & Exp: Date

### Additional Comments:

|                          |                             |
|--------------------------|-----------------------------|
| Infrared Thermometer ID: | IR TEMP GUN #5 EXP:10-19-22 |
| pH Test Strips 0 – 6     | Lot#210620 EXP:4-15-23      |
| pH Paper 0 – 3           |                             |
| pH Paper 0 – 13          | Lot#210620 EXP:4-15-23      |
| Chlorine Test Strips     | Lot#0070 EXP:2-23           |

### 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# \_\_\_\_\_**

### **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:** 2/15/2022 **Collected By:** Frank Butera, Nathan Mulkey  
**Customer:** NW-DIST **Sampling Agency:** FDEP  
**RQ:** RQ-2022-02-14-56 **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:** 2

**Delivery Method:** UPS

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

| Site Location                        | Field ID/WIN ID                                                                                   |
|--------------------------------------|---------------------------------------------------------------------------------------------------|
| Lake Karick (Center) (also 33040210) | <br>G4NW0274    |
| FB                                   | <br>FB_02152022 |
| Roberts Lake                         | <br>G3NW0447  |
| UNNAMED LAKE                         | <br>G3NW0223  |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 2/15/2022  
1630 CEN

**THIS SECTION TO BE COMPLETED BY LABORATORY**

Rec'd/Inspected By: WVH

Rec'd/Inspected

Date: 2-16-22 / 1000



RQ-2022-02-14-56

Collected By: Frank Butera, Nathan Mulkey

Customer: FDEP

Field Report Prepared by: Frank Butera, Nathan Mulkey

Project ID: SMP

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G4NW0274

Comments: Blank @ 10:15 ctz

Location:

Location: Lake Karick (Center) (also 33040210)

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

| Date and Time {CEN}                | DO (mg/L) | DO (%SAT)                                                                  | Temp. ©        | pH            | Sample Depth (m)                         | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT <sub>h</sub> ) |                       |              |   |    |   |   |   |  |  |
|------------------------------------|-----------|----------------------------------------------------------------------------|----------------|---------------|------------------------------------------|--------------|-----------------|---------------------|------------------------------|-----------------------|--------------|---|----|---|---|---|--|--|
| 2/15/2022 950                      | 10.64     | 98.1                                                                       | 12.3           | 5.15          | 0.3                                      | 4.6          | 4.72            | 15.4                | 0.01                         |                       |              |   |    |   |   |   |  |  |
| Parameter Suite                    |           | Parameter Methods                                                          |                |               |                                          | Preservation |                 | pH Check            |                              | # Bottles sent to Lab | Bottle Group |   |    |   |   |   |  |  |
| Preserved Nutrients (P-500ML)      | X         | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                |                |               |                                          | X            | Ice             | X                   | H2SO4*                       | X                     | <2           | 1 | C  |   |   |   |  |  |
|                                    |           | Lot #                                                                      |                | SA1105060     |                                          | Exp:         |                 | 04/30/2022          |                              |                       |              |   |    |   |   |   |  |  |
| Metals (P-500ML)                   | X         | W-ICPMS                                                                    |                | X             | W-ICP                                    | X            | W-HARD          | X                   | Ice                          | X                     | HNO3*        | X | <2 | 1 | C |   |  |  |
|                                    |           | Lot #                                                                      |                |               | NA1105100                                |              | Exp:            |                     | 06/07/2022                   |                       |              |   |    |   |   |   |  |  |
| Filtered Nutrients (P125ML)        | X         | W-PO4-F                                                                    |                | X             | Field Filtered 0.45 um Filter            |              | X               | Ice                 |                              |                       |              | 1 | C  |   |   |   |  |  |
|                                    |           | Filter Lot #                                                               | 17236199       | Syringe Lot # | 1005533                                  |              |                 |                     |                              |                       |              |   |    |   |   |   |  |  |
| BOD (BP-1L)                        |           | OV-BODUNIN                                                                 |                |               |                                          |              | Ice             |                     |                              |                       |              |   |    |   |   |   |  |  |
| Chlorophyll (BP-1L)                | X         | CHLSUITE-W                                                                 |                |               |                                          | X            | Ice             |                     |                              |                       |              |   |    |   | 1 | C |  |  |
| Physical/Aggregate (Fresh) (P-1L)  | X         | Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W- TDS |                |               |                                          | X            | Ice             |                     |                              |                       |              |   |    |   | 1 | C |  |  |
| Physical/Aggregate (Marine) (P-1L) |           | Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                             |                |               |                                          |              | Ice             |                     |                              |                       |              |   |    |   |   |   |  |  |
| Macroinvertebrates (PJ-2L)         |           | MI-FW-QLDC                                                                 | Formalin Lot # |               |                                          |              | Formalin        |                     |                              |                       |              |   |    |   |   |   |  |  |
| Periphyton (PT-50ML)               |           | ALGAE-ID                                                                   |                |               |                                          |              | Ice             |                     |                              |                       |              |   |    |   |   |   |  |  |
| Microbiology (Contract Lab Bottle) |           | E Coli                                                                     |                |               | F Coli                                   |              |                 | Enterococci         |                              |                       |              |   |    |   |   |   |  |  |
|                                    |           | Contract Lab                                                               |                |               |                                          |              | Ice             |                     |                              |                       |              |   |    |   |   |   |  |  |
| Molecular (QPCR-P-500ML)           |           | PCR-HF183                                                                  |                |               | PCR-BacR                                 |              |                 | PCR-DG3             |                              |                       |              |   |    |   |   |   |  |  |
|                                    |           | PCR-GULL2                                                                  |                |               | PCR-GFD                                  |              |                 | Ice                 |                              |                       |              |   |    |   |   |   |  |  |
| Tracers (BG-500ML)                 |           | W-E8321-DI                                                                 |                |               | W-E8321-MS                               |              |                 | Ice                 |                              |                       |              |   |    |   |   |   |  |  |
| Pesticides (BG-500ML) (BG-1L)      |           | W-E8321-DI                                                                 |                |               | W-E8321-MS                               |              |                 | Ice                 | MCAA Exp.                    | MCAA Lot#             |              |   |    |   |   |   |  |  |
|                                    |           | W-PCL-TQ-R                                                                 |                |               | W-CARB-AA (5 ml of MCAA Buffer Solution) |              |                 |                     |                              |                       |              |   |    |   |   |   |  |  |
|                                    |           | W-TR-SQ-R                                                                  |                |               | W-PCB-TQ-R                               |              |                 |                     |                              |                       |              |   |    |   |   |   |  |  |
| Phytoplankton                      |           | DTY-QN-C                                                                   |                |               | PKD-QN-BV                                |              |                 | Ice                 |                              |                       |              |   |    |   |   |   |  |  |



|                                                                                                                                    |                                                       |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| RQ-2022-02-14-56                                                                                                                   | Collected By: Frank Butera, Nathan Mulkey             |
| Customer: FDEP                                                                                                                     | Field Report Prepared by: Frank Butera, Nathan Mulkey |
| Project ID: SMP                                                                                                                    | Sampling Agency: FDEP                                 |
| WIN ID/Field ID: <br>WIN ID/Field ID: FB_02152022 | Comments: Blank @ 10:15 ctz                           |

Location:  
Location: FB

Matrix: DI Water (Check One) ☒ Grab ☐ Composite

| Date and Time {CEN}                | DO (mg/L)                                      | DO (%SAT)                                                                   | Temp. ©                                  | pH | Sample Depth (m)              | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm)   | Salinity (PPT) |           |       |   |    |   |   |
|------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------|----|-------------------------------|--------------|-----------------|-----------------------|----------------|-----------|-------|---|----|---|---|
| 2/15/2022<br>1015                  |                                                |                                                                             |                                          |    |                               |              |                 |                       |                |           |       |   |    |   |   |
| Parameter Suite                    | Parameter Methods                              |                                                                             |                                          |    | Preservation                  |              | pH Check        | # Bottles sent to Lab | Bottle Group   |           |       |   |    |   |   |
| Preserved Nutrients (P-500ML)      | X                                              | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                 |                                          |    | X                             | Ice          | X               | H2SO4*                | X              | <2        | 1     | B |    |   |   |
|                                    | Lot #                                          |                                                                             | SA1105060                                |    | Exp:                          |              | 04/30/2022      |                       |                |           |       |   |    |   |   |
| Metals (P-500ML)                   | X                                              | W-ICPMS                                                                     |                                          | X  | W-ICP                         | X            | W-HARD          | X                     | Ice            | X         | HNO3* | X | <2 | 1 | B |
|                                    | Lot #                                          |                                                                             | NA1105100                                |    | Exp:                          |              | 44719           |                       |                |           |       |   |    |   |   |
| Filtered Nutrients (P125ML)        | X                                              | W-PO4-F                                                                     |                                          | X  | Field Filtered 0.45 µm Filter |              |                 | X                     | Ice            |           |       | 1 | B  |   |   |
|                                    | Filter Lot #                                   |                                                                             | 1005533                                  |    | Syringe Lot #                 |              | 17236199        |                       |                |           |       |   |    |   |   |
| BOD (BP-1L)                        | OV-BODUNIN                                     |                                                                             |                                          |    | Ice                           |              |                 |                       |                |           |       |   |    |   |   |
| Chlorophyll (BP-1L)                | CHLSUITE-W                                     |                                                                             |                                          |    | Ice                           |              |                 |                       |                |           |       |   |    |   |   |
| Physical/Aggregate (Fresh) (P-1L)  | X                                              | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS |                                          |    |                               | X            | 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 Lot #                           |    | Formalin                      |              |                 |                       |                |           |       |   |    |   |   |
| Periphyton (PT-50ML)               | ALGAE-ID                                       |                                                                             |                                          |    | Ice                           |              |                 |                       |                |           |       |   |    |   |   |
| Microbiology (Contract Lab Bottle) | E Coli                                         |                                                                             | F Celi                                   |    | 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-PSNP-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                      | DTY-QN-C                                       |                                                                             | PKD-QN-BV                                |    | Ice                           |              |                 |                       |                |           |       |   |    |   |   |



|                                                                                                                                 |                                                       |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| RQ-2022-02-14-56                                                                                                                | Collected By: Frank Butera, Nathan Mulkey             |
| Customer: FDEP                                                                                                                  | Field Report Prepared by: Frank Butera, Nathan Mulkey |
| Project ID: SMP                                                                                                                 | Sampling Agency: FDEP                                 |
| WIN ID/Field ID: <br>WIN ID/Field ID: G3NW0447 | Comments: WIN ID corrected (FB)                       |

**Location:**  
**Location:** Roberts Lake

Matrix: Fresh (Check One) ☒ Grab ☐ Composite

| Date and Time {CEN}                | DO (mg/L) | DO (%SAT)                                                                   | Temp. © | pH                                       | Sample Depth (m)              | Secchi Depth  | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT)        |              |    |   |   |  |  |  |  |  |  |  |
|------------------------------------|-----------|-----------------------------------------------------------------------------|---------|------------------------------------------|-------------------------------|---------------|-----------------|---------------------|-----------------------|--------------|----|---|---|--|--|--|--|--|--|--|
| 2/15/2022 1130                     | 10.53     | 98.3                                                                        | 13      | 5.51                                     | 0.3                           | 2             | 2               | 21                  | 0.01                  |              |    |   |   |  |  |  |  |  |  |  |
| Parameter Suite                    |           | Parameter Methods                                                           |         |                                          |                               | Preservation  |                 | pH Check            | # Bottles sent to Lab | Bottle Group |    |   |   |  |  |  |  |  |  |  |
| Preserved Nutrients (P-500ML)      | X         | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                 |         |                                          |                               | X             | Ice             | X                   | H2SO4*                | X            | <2 | 1 | A |  |  |  |  |  |  |  |
|                                    |           | Lot #                                                                       |         | SA1105060                                |                               | Exp:          |                 | 04/30/2022          |                       |              |    |   |   |  |  |  |  |  |  |  |
| Metals (P-500ML)                   |           | W-ICPMS                                                                     |         | W-ICP                                    |                               | W-HARD        |                 |                     | Ice                   |              |    |   |   |  |  |  |  |  |  |  |
|                                    |           | Lot #                                                                       |         |                                          |                               | Exp:          |                 |                     |                       |              |    |   |   |  |  |  |  |  |  |  |
| Filtered Nutrients (P125ML)        | X         | W-PO4-F                                                                     |         | X                                        | Field Filtered 0.45 um Filter |               |                 |                     | Ice                   | 1            | A  |   |   |  |  |  |  |  |  |  |
|                                    |           | Filter Lot #                                                                |         | 17236199                                 |                               | Syringe Lot # |                 | 1005533             |                       |              |    |   |   |  |  |  |  |  |  |  |
| BOD (BP-1L)                        |           | OV-BODUNIN                                                                  |         |                                          |                               |               |                 | Ice                 |                       |              |    |   |   |  |  |  |  |  |  |  |
| Chlorophyll (BP-1L)                | X         | CHLSUITE-W                                                                  |         |                                          |                               |               |                 | Ice                 |                       |              |    |   |   |  |  |  |  |  |  |  |
| Physical/Aggregate (Fresh) (P-1L)  | X         | Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS |         |                                          |                               |               |                 | Ice                 |                       |              |    |   |   |  |  |  |  |  |  |  |
| Physical/Aggregate (Marine) (P-1L) |           | Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                              |         |                                          |                               |               |                 | Ice                 |                       |              |    |   |   |  |  |  |  |  |  |  |
| Macroinvertebrates (PJ-2L)         |           | MI-FW-QLDC                                                                  |         | Formalin Lot #                           |                               |               |                 | Formalin            |                       |              |    |   |   |  |  |  |  |  |  |  |
| Periphyton (PT-50ML)               |           | ALGAE-ID                                                                    |         |                                          |                               |               |                 | Ice                 |                       |              |    |   |   |  |  |  |  |  |  |  |
| Microbiology (Contract Lab Bottle) |           | E Coli                                                                      |         | F Coli                                   |                               | Enterococci   |                 |                     |                       |              |    |   |   |  |  |  |  |  |  |  |
|                                    |           | Contract Lab                                                                |         |                                          |                               |               |                 | Ice                 |                       |              |    |   |   |  |  |  |  |  |  |  |
| Molecular (QPCR-P-500ML)           |           | PCR-HF183                                                                   |         | PCR-BacR                                 |                               | PCR-DG3       |                 |                     |                       |              |    |   |   |  |  |  |  |  |  |  |
|                                    |           | PCR-GULL2                                                                   |         | PCR-GFD                                  |                               |               |                 | Ice                 |                       |              |    |   |   |  |  |  |  |  |  |  |
| Tracers (BG-500ML)                 |           | W-E8321-DI                                                                  |         | W-E8321-MS                               |                               |               |                 | Ice                 |                       |              |    |   |   |  |  |  |  |  |  |  |
| Pesticides (BG-500ML) (BG-1L)      |           | W-E8321-DI                                                                  |         | W-E8321-MS                               |                               | W-PSNP-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                      |           | DTY-QN-C                                                                    |         | PKD-QN-BV                                |                               |               |                 | Ice                 |                       |              |    |   |   |  |  |  |  |  |  |  |



|                                                                                                                                 |                                                       |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| RQ-2022-02-14-56                                                                                                                | Collected By: Frank Butera, Nathan Mulkey             |
| Customer: FDEP                                                                                                                  | Field Report Prepared by: Frank Butera, Nathan Mulkey |
| Project ID: SMP                                                                                                                 | Sampling Agency: FDEP                                 |
| WIN ID/Field ID: <br>WIN ID/Field ID: G3NW0223 | Comments:                                             |

**Location:**  
**Location:** UNNAMED LAKE

Matrix: Fresh (Check One) ☒ Grab ☐ Composite

| Date and Time {CEN}                | DO (mg/L) | DO (%SAT)                                                                    | Temp. ©  | pH                                       | Sample Depth (m)              | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPTH)       |              |       |   |    |   |  |  |
|------------------------------------|-----------|------------------------------------------------------------------------------|----------|------------------------------------------|-------------------------------|--------------|-----------------|---------------------|-----------------------|--------------|-------|---|----|---|--|--|
| 2/15/2022 1230                     | 10.81     | 104                                                                          | 14.2     | 5.77                                     | 0.23                          | 0.46         | 0.46            | 42.2                | 0.02                  |              |       |   |    |   |  |  |
| Parameter Suite                    |           | Parameter Methods                                                            |          |                                          |                               | Preservation |                 | pH Check            | # Bottles sent to Lab | Bottle Group |       |   |    |   |  |  |
| Preserved Nutrients (P-500ML)      | X         | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |          |                                          |                               | X            | Ice             | X                   | H2SO4*                | X            | <2    | 1 | A  |   |  |  |
|                                    |           | Lot #                                                                        |          | SA1105060                                |                               | Exp:         |                 | 04/30/2022          |                       |              |       |   |    |   |  |  |
| Metals (P-500ML)                   |           | W-ICPMS                                                                      |          | W-ICP                                    |                               | W-HARD       |                 |                     | Ice                   |              | HNO3* |   | <2 |   |  |  |
|                                    |           | Lot #                                                                        |          |                                          |                               | Exp:         |                 |                     |                       |              |       |   |    |   |  |  |
| Filtered Nutrients (P125ML)        | X         | W-PO4-F                                                                      |          | X                                        | Field Filtered 0.45 um Filter |              |                 | X                   | Ice                   |              |       | 1 | A  |   |  |  |
|                                    |           | Filter Lot #                                                                 | 17236199 |                                          | Syringe Lot #                 |              | 1005533         |                     |                       |              |       |   |    |   |  |  |
| 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-IC / W-COLOR / W-SO4-IC / W- TDS |          |                                          |                               | X            | Ice             |                     |                       | 1            |       |   |    | A |  |  |
| Physical/Aggregate (Marine) (P-1L) |           | Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                               |          |                                          |                               |              | Ice             |                     |                       |              |       |   |    |   |  |  |
| Macroinvertebrates (PJ-2L)         |           | MI-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-PSNP-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                      |           | DTY-QN-C                                                                     |          | PKD-QN-BV                                |                               | Ice          |                 |                     |                       |              |       |   |    |   |  |  |

Date of Request: 01-FEB-2022  
 Created By: KING\_M On: 01-FEB-2022  
 Modified By: AYRES\_J On: 09-FEB-2022  
 Customer: NW-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northwest District  
 Event Description: Niceville Lake Run

**Send Coolers To:**

Phone: 850-595-0605  
 160 Government Center  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Michael King  
 Cooler Ship EMail: michael.king@dep.state.fl.us

Priority: 3  
 Event Status: A  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: AYRES\_J On: 09-FEB-2022  
 Biology Request Reviewed By: AYRES\_J On: 09-FEB-2022  
 Sampling Kit Required: NO Ship on:  
 Sampling Kit Shipped: YES On: 08-FEB-2022  
 Sampling Kit Packed By: ROBERTS\_Z  
 Preservatives Needed: NO  
 Date to Receive Samples: 15-FEB-2022  
 Logged In By:

**Send Final Report To:**

160 Government Center  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Myranda K Butler  
 Report Notification EMail:  
 Michael.King@dep.state.fl.us;myranda.k.butler@dep.state.fl.us

Comments: Group A: (WBID 568A, 722D) Freshwater Nutrients  
 Group B: (Field Blank) Freshwater Nutrients, Metals  
 Group C: (WBID 145) Freshwater Nutrients, Metals

Packing notes;

FedEx/ UPS return packing slips

**Bottle Group A (Water) With 2 Samples:**

|                                   |                      |                                                                                                              |
|-----------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L                 | Number of Bottles: 2 | 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-SO <sub>4</sub> -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: 2 | 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: 2 | Preserved With: ICE And H <sub>2</sub> SO <sub>4</sub>                                                       |
| W-NH <sub>3</sub>                 | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                   |
| W-NO <sub>2</sub> NO <sub>3</sub> | 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 Group A (Water) With 2 Samples:**

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 2 | Preserved With: ICE And H2SO4                                                            |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                         |
| Bottle Type: P-125ML | Number of Bottles: 2 | 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 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    | (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-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: 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: 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             |                      |                                                                                                                                                |
| 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                    |
| *Boron               |                      |                                                                                                                                                |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |
| Barium               |                      |                                                                                                                                                |
| Beryllium            |                      |                                                                                                                                                |
| 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 C (Water) With 1 Samples:**

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: 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             |                      |                                                                                                                                                |
| 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                    |
| *Boron               |                      |                                                                                                                                                |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |
| Barium               |                      |                                                                                                                                                |
| Beryllium            |                      |                                                                                                                                                |
| 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 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    | (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-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                                                |

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