

RQ- 2023-11-06-53

## Login Checklist

Login Station ID: #3

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 11/21/23 @ 0856

| *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 |                    |
| 4.3                 |                 |                                        |          | 16                                    |               | x  |          |    | 648484555903       |
|                     |                 |                                        |          |                                       |               | X  |          |    | 648484555914       |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |

## 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 X No \_\_\_\_\_ Init: BKK

Chlorine detected? (One container checked per Field ID)

Yes \_\_\_\_\_ No X Init: BKK

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 \_\_\_\_\_ Init: BKK

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

Yes \_\_\_\_\_ No \_\_\_\_\_ NA X Init: BKK

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

Coolers Unpacked/Checked by: BKK

Date: 11/21/23

Event contains NCRs(Y/N)? NEventID: Highlands Run  
SE-DIST-2023-11-21-03 (SMP)

Date Received: 21-NOV-2023 08:56

## Login Checklist

### Login Preservation Equipment

### Lot # & Exp: Date

### Additional Comments:

|                          |                               |
|--------------------------|-------------------------------|
| Infrared Thermometer ID: | IR TEMP GUN #3 Exp:10/16/2024 |
| pH Test Strips 0 – 6     | Lot#223819BV   Exp:8/15/24    |
| pH Paper 0 – 3           |                               |
| pH Paper 0 – 13          | Lot#207621   Exp:3/15/24      |
| Chlorine Test Strips     | Lot#2313   Exp:7/25           |

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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CHAIN OF CUSTODY FORM

**Date:** 11/20/2023      **Collected By:** Tirzah Chichester, Natalie Howard  
**Customer:** SE-DIST      **Sampling Agency:** FDEP  
**RQ:** RQ-2023-11-06-53      **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:** FedEx  
**FIELD ID (Labels) submitted under this RQ for this collection date.**

| Site Location                                 | Field ID/WIN ID                                                                                     |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------|
| INDIAN PRAIRIE CANAL UPSTREAM OF SR 70        | <br>G4SE0152      |
| JACKSON CREEK AT SR66                         | <br>G4SE0187      |
| ARBUCKLE CREEK AT US HWY 98                   | <br>G4SE0150    |
| KISSIMMEE TRIBUTARY AT US 98 EAST OF BUCKHORN | <br>G4SE0155    |
| ARBUCKLE BRANCH AT ARBUCKLE CREEK RD          | <br>G4SE0149    |
| FB                                            | <br>FB_11202023 |
| KISSIMMEE TRIBUTARY AT US 98 WEST OF CORNWELL | <br>G4SE0154    |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 11/20/2023  
1600 EST

**THIS SECTION TO BE COMPLETED BY LABORATORY**

Rec'd/Inspected By: Brian Kneuch

Rec'd/Inspected  
Date: 11/21/23 0856



RQ-2023-11-06-53

Collected By: Tirzah Chichester, Natalie Howard

Customer: FDEP

Field Report Prepared by: Tirzah Chichester,  
Natalie Howard

Project ID: SMP

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G4SE0152

Comments:

Location: INDIAN PRAIRIE CANAL UPSTREAM OF SR 70

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 (µmhos/cm) | Salinity (PPTH) |
|---------------------|-----------|-----------|----------|-----|------------------|--------------|-----------------|--------------------|-----------------|
| 11/20/2023<br>950   | 4.16      | 48.7      | 22.8     | 6.7 | 0.3              | 0.4          | 1.4             | 183.8              | 0.09            |

| 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)                   | x                                                                           | W-ICPMS        | x                                        | W-ICP      | x            | W-HARD      | x          | Ice                   | x            | HNO3*     |   |   |
|                                    | Lot #                                                                       |                | NA3123030                                |            | Exp:         |             | 05/10/2024 | X                     | <2           | 1         | C |   |
| Filtered Nutrients (P125ML)        | W-PO4-F                                                                     |                | Field Filtered 0.45 um Filter            |            |              | Ice         |            |                       |              |           |   |   |
|                                    | Filter Lot #                                                                | Syringe Lot #  |                                          |            |              |             |            |                       |              |           |   |   |
| BOD (BP-1L)                        | OV-BODUNIN                                                                  |                |                                          |            | Ice          |             |            |                       |              |           |   |   |
| Chlorophyll (BP-1L)                | CHLSUITE-W                                                                  |                |                                          |            | Ice          |             |            |                       |              |           |   |   |
| Physical/Aggregate (Fresh) (P-1L)  | Alkalinity / W-F / W-TSS / TURBIDITY / W-Q-IC / W-COLOR / W-SO4-IC / W- TDS |                |                                          |            | Ice          |             |            |                       |              |           |   |   |
| Physical/Aggregate (Marine) (P-1L) | Alkalinity / 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) | x                                                                           | E Coli         |                                          | F Coli     |              | Enterococci | x          | Ice                   |              | 1         | C |   |
|                                    | 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    |             | x          | Ice                   | MCAA Exp.    | MCAA Lot# | 4 | C |
|                                    | x                                                                           | W-PCL-TQ-R     | W-CARB-AA (5 ml of MCAA Buffer Solution) |            | x            | W-CT-CL-R   |            |                       |              |           |   |   |
|                                    | W-TR-SQ-R                                                                   |                | x                                        | W-PCB-TQ-R |              |             |            |                       |              |           |   |   |
| Phytoplankton (BP-1L)              | DTY-QN-C                                                                    |                | PKD-QN-8V                                |            |              |             | Ice        |                       |              |           |   |   |
| DOC (P-500ML)                      | W-DOC                                                                       |                | Field Filtered 0.45 um Filter            |            |              | Ice         | H2SO 4*    | <2                    |              |           |   |   |
|                                    |                                                                             |                | Acid Preservative Expiration Date        |            |              |             |            |                       |              |           |   |   |
|                                    |                                                                             |                | Acid Preservative Lot Number             |            |              |             |            |                       |              |           |   |   |



RQ-2023-11-06-53

Customer: FDEP

Project ID: SMP

Collected By: Tirzah Chichester, Natalie Howard

Field Report Prepared by: Tirzah Chichester, Natalie Howard

Sampling Agency: FDEP

Comments:

WIN ID/Field ID:



WIN ID/Field ID: G4SE0187

Location: JACKSON CREEK AT SR66

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 (µmhos /cm) | Salinity (PPT) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|---------------------|----------------|
| 11/20/2023<br>1040  | 4.13      | 48.1      | 22.5     | 5.96 | 0.2              | 0.4          | 0.4             | 106.1               | 0.05           |

  

| 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*                |              |
|                                    |                   | Lot #                                                                        | SA3193140                                | Exp:                          |              |          |           | 07/31/2024            |              |
| Metals (P-500ML)                   |                   | W-ICPMS                                                                      |                                          | W-ICP                         |              | Ice      |           | HNO3*                 |              |
|                                    |                   | Lot #                                                                        |                                          | Exp:                          |              |          |           |                       |              |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                      |                                          | Field Filtered 0.45 um Filter |              | Ice      |           |                       |              |
|                                    |                   | Filter Lot #                                                                 |                                          | Syringe Lot #                 |              |          |           |                       |              |
| 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-F / W-TSS / TURBIDITY                                         |                                          |                               |              | Ice      |           |                       |              |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                   | Formalin Lot #                           |                               |              | Formalin |           |                       |              |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                     |                                          |                               |              | Ice      |           |                       |              |
| Microbiology (Contract Lab Bottle) | X                 | E Coli                                                                       | F Coli                                   | Enterococci                   | X            | Ice      |           |                       | 1 A          |
|                                    |                   | 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 (BP-1L)              |                   | DTY-QN-C                                                                     | PKD-QN-BV                                |                               |              | Ice      |           |                       |              |
| DOC (P-500ML)                      |                   | W-DOC                                                                        | Field Filtered 0.45 um Filter            |                               |              | Ice      | H2SO 4*   |                       |              |
|                                    |                   |                                                                              | Acid Preservative Expiration Date        |                               |              |          |           | <2                    |              |
|                                    |                   |                                                                              | Acid Preservative Lot Number             |                               |              |          |           |                       |              |



RQ-2023-11-06-53

Collected By: Tirzah Chichester, Natalie Howard

Customer: FDEP

Field Report Prepared by: Tirzah Chichester,  
Natalie Howard

Project ID: SMP

Sampling Agency: FDEP

 WIN ID/Field ID:   
 WIN ID/Field ID: G4SE0150

Comments:

Location: ARBUCKLE CREEK AT US HWY 98

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 (µmhos /cm) | Salinity (PPTH) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|---------------------|-----------------|
| 11/20/2023<br>1111  | 5.93      | 69        | 22.9     | 6.54 | 0.3              | 0.4          | 4.6             | 140.8               | 0.07            |

| 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*   | <2                    | 1            | A  |
|                                    |                   | Lot # SA3193140                                                              | Exp:                                     | 07/31/2024   |     |          |                       |              |    |
| Metals (P-500ML)                   |                   | W-ICPMS                                                                      | W-ICP                                    | W-HARD       | Ice | HNO3*    | <2                    |              |    |
|                                    |                   | Lot #                                                                        | Exp:                                     |              |     |          |                       |              |    |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                      | Field Filtered 0.45 um Filter            |              | Ice |          |                       |              |    |
|                                    |                   | Filter Lot #                                                                 | Syringe Lot #                            |              |     |          |                       |              |    |
| 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-F / W-TSS / TURBIDITY                                         |                                          |              |     | Ice      |                       |              |    |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                   | Formalin Lot #                           |              |     | Formalin |                       |              |    |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                     |                                          |              | Ice |          |                       |              |    |
| Microbiology (Contract Lab Bottle) | X                 | E Coli                                                                       | F Coli                                   | Enterococci  | x   | Ice      |                       | 1            | A  |
|                                    |                   | 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-CAR8-AA (5 ml of MCAA Buffer Solution) | W-CT-CL-R    |     |          |                       |              |    |
|                                    |                   | W-TR-SQ-R                                                                    | W-PCB-TQ-R                               |              |     |          |                       |              |    |
| Phytoplankton (BP-1L)              |                   | DTY-QN-C                                                                     | PKD-QN-BV                                |              |     | Ice      |                       |              |    |
| DOC (P-500ML)                      |                   | W-DOC                                                                        | Field Filtered 0.45 um Filter            |              |     | Ice      |                       | H2SO4*       | <2 |
|                                    |                   |                                                                              | Acid Preservative Expiration Date        |              |     |          |                       |              |    |
|                                    |                   |                                                                              | Acid Preservative Lot Number             |              |     |          |                       |              |    |



|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| RQ-2023-11-06-53       | <b>Collected By:</b> Tirzah Chichester, Natalie Howard             |
| <b>Customer:</b> FDEP  | <b>Field Report Prepared by:</b> Tirzah Chichester, Natalie Howard |
| <b>Project ID:</b> SMP | <b>Sampling Agency:</b> FDEP                                       |

WIN ID/Field ID:   
 WIN ID/Field ID: G4SE0155

**Comments:**

**Location:** KISSIMMEE TRIBUTARY AT US 98 EAST OF BUCKHORN

**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 (µmhos /cm) | Salinity (PPTH)       |              |
|------------------------------------|----------------------------------------------------------------------------|------------------------------------------|-------------------------------|------------|------------------|--------------|-----------------|---------------------|-----------------------|--------------|
| 11/20/2023 1225                    | 6.86                                                                       | 79.7                                     | 22.6                          | 6.47       | 0.2              | 0.4          | 0.4             | 547                 | 0.26                  |              |
| 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                         | W-HARD     | Ice              | HNO3*        |                 | <2                  |                       |              |
|                                    | Lot #                                                                      |                                          | Exp:                          |            |                  |              |                 |                     |                       |              |
| Filtered Nutrients (P125ML)        | W-PO4-F                                                                    |                                          | Field Filtered 0.45 µm Filter |            | Ice              |              |                 |                     |                       |              |
|                                    | Filter Lot #                                                               |                                          | Syringe Lot #                 |            |                  |              |                 |                     |                       |              |
| BOD (BP-1L)                        | OV-BODUNIN                                                                 |                                          |                               |            | Ice              |              |                 |                     |                       |              |
| Chlorophyll (BP-1L)                | CHLSUITE-W                                                                 |                                          |                               |            | Ice              |              |                 |                     |                       |              |
| Physical/Aggregate (Fresh) (P-1L)  | Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W- TDS |                                          |                               |            | Ice              |              |                 |                     |                       |              |
| Physical/Aggregate (Marine) (P-1L) | Alkalinity / 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) | X                                                                          | E Coli                                   |                               | F Coli     |                  | Enterococci  | x               | Ice                 | 1                     | D            |
| Molecular (QPCR-P-500ML)           | X                                                                          | PCR-HF183                                | X                             | PCR-BacR   | X                | PCR-DG3      | x               | Ice                 | 1                     | D            |
|                                    |                                                                            | PCR-GULL2                                |                               | PCR-GFD    |                  |              |                 |                     |                       |              |
| Tracers (BG-500ML)                 | X                                                                          | W-E8321-DI                               | X                             | W-E8321-MS | x                | Ice          |                 |                     | 1                     | D            |
| 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 (BP-1L)              | DTY-QN-C                                                                   |                                          | PKD-QN-BV                     |            | Ice              |              |                 |                     |                       |              |
| DOC (P-500ML)                      | W-DOC                                                                      | Field Filtered 0.45 µm Filter            |                               |            | Ice              | H2SO4*       |                 | <2                  |                       |              |
|                                    |                                                                            | Acid Preservative Expiration Date        |                               |            |                  |              |                 |                     |                       |              |
|                                    |                                                                            | Acid Preservative Lot Number             |                               |            |                  |              |                 |                     |                       |              |



|                  |                                                             |
|------------------|-------------------------------------------------------------|
| RQ-2023-11-06-53 | Collected By: Tirzah Chichester, Natalie Howard             |
| Customer: FDEP   | Field Report Prepared by: Tirzah Chichester, Natalie Howard |
| Project ID: SMP  | Sampling Agency: FDEP                                       |

WIN ID/Field ID:   
WIN ID/Field ID: G4SE0149

Comments:

Location: ARBUCKLE BRANCH AT ARBUCKLE CREEK RD

Matrix: Fresh

(Check One)

☒ Grab

☐ Composite

| Date and Time<br>{EST}             | DO<br>(mg/L)                      | DO<br>(%SAT)                                                                 | Temp. °C                                    | pH                            | Sample<br>Depth (m) | Secchi<br>Depth | Total<br>Depth<br>(m) | Sp COND<br>(µmhos /cm) | Salinity<br>(PPT) |                          |                 |   |
|------------------------------------|-----------------------------------|------------------------------------------------------------------------------|---------------------------------------------|-------------------------------|---------------------|-----------------|-----------------------|------------------------|-------------------|--------------------------|-----------------|---|
| 11/20/2023<br>1140                 | 6.85                              | 80.1                                                                         | 23.1                                        | 6.48                          | 0.05                | 0.1             | 0.1                   | 213.6                  | 0.1               |                          |                 |   |
| Parameter Suite                    | Parameter Methods                 |                                                                              |                                             |                               |                     | Preservation    |                       | pH Check               |                   | # Bottles<br>sent to Lab | Bottle<br>Group |   |
| Preserved Nutrients (P-500ML)      | X                                 | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |                                             |                               |                     | X               | Ice                   | X                      | H2SO4*            | <2                       | 1               | B |
|                                    | Lot #                             |                                                                              | SA3193140                                   |                               | Exp:                | 07/31/2024      |                       |                        |                   |                          |                 |   |
| Metals (P-500ML)                   |                                   | W-ICPMS                                                                      |                                             | W-ICP                         | W-HARD              |                 | Ice                   |                        | HNO3*             | <2                       |                 |   |
|                                    | Lot #                             |                                                                              |                                             |                               | Exp:                |                 |                       |                        |                   |                          |                 |   |
| Filtered Nutrients (P125ML)        |                                   | W-PO4-F                                                                      |                                             | Field Filtered 0.45 µm Filter |                     |                 | Ice                   |                        |                   |                          |                 |   |
|                                    | Filter Lot #                      |                                                                              |                                             | Syringe Lot #                 |                     |                 |                       |                        |                   |                          |                 |   |
| BOD (BP-1L)                        |                                   | OV-BODUNIN                                                                   |                                             |                               |                     |                 | Ice                   |                        |                   |                          |                 |   |
| Chlorophyll (BP-1L)                | X                                 | CHLSUITE-W                                                                   |                                             |                               |                     | X               | Ice                   |                        |                   |                          | 1               | B |
| 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-F / W-TSS / TURBIDITY                                         |                                             |                               |                     |                 | Ice                   |                        |                   |                          |                 |   |
| Macroinvertebrates (PJ-2L)         |                                   | MI-FW-QLDC                                                                   | Formalin Lot #                              |                               |                     |                 | Formalin              |                        |                   |                          |                 |   |
| Periphyton (PT-50ML)               |                                   | ALGAE-ID                                                                     |                                             |                               |                     |                 | Ice                   |                        |                   |                          |                 |   |
| Microbiology (Contract Lab Bottle) | X                                 | E Coli                                                                       |                                             | F Coli                        | Enterococci         | X               | Ice                   |                        |                   |                          | 1               | B |
|                                    | Contract Lab                      |                                                                              |                                             |                               |                     |                 |                       |                        |                   |                          |                 |   |
| Molecular (QPCR-P-500ML)           | X                                 | PCR-HF183                                                                    |                                             | X                             | PCR-BacR            | X               | PCR-DG3               | X                      | Ice               |                          | 1               | B |
|                                    | PCR-GULL2                         |                                                                              | PCR-GFD                                     |                               |                     |                 |                       |                        |                   |                          |                 |   |
| Tracers (BG-500ML)                 | X                                 | W-E8321-DI                                                                   |                                             | X                             | W-E8321-MS          |                 | X                     | Ice                    |                   |                          | 1               | B |
| Pesticides (BG-500ML) (BG-1L)      |                                   | W-E8321-DI                                                                   | W-E8321-MS                                  |                               | W-PSNP-TQ           |                 | Ice                   | MCAA<br>Exp.           | MCAA<br>Lot#      |                          |                 |   |
|                                    |                                   | W-PCL-TQ-R                                                                   | W-CARB-AA (5 ml of<br>MCAA Buffer Solution) |                               | W-CT-CL-R           |                 |                       |                        |                   |                          |                 |   |
|                                    |                                   | W-TR-SQ-R                                                                    |                                             | W-PCB-TQ-R                    |                     |                 |                       |                        |                   |                          |                 |   |
| Phytoplankton (BP-1L)              |                                   | DTY-QN-C                                                                     |                                             | PKD-QN-BV                     |                     |                 | Ice                   |                        |                   |                          |                 |   |
| DOC (P-500ML)                      |                                   | W-DOC                                                                        | Field Filtered 0.45 µm Filter               |                               |                     |                 | Ice                   |                        | H2SO<br>4*        | <2                       |                 |   |
|                                    | Acid Preservative Expiration Date |                                                                              |                                             |                               |                     |                 |                       |                        |                   |                          |                 |   |
|                                    | Acid Preservative Lot Number      |                                                                              |                                             |                               |                     |                 |                       |                        |                   |                          |                 |   |



|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| RQ-2023-11-06-53       | <b>Collected By:</b> Tirzah Chichester, Natalie Howard             |
| <b>Customer:</b> FDEP  | <b>Field Report Prepared by:</b> Tirzah Chichester, Natalie Howard |
| <b>Project ID:</b> SMP | <b>Sampling Agency:</b> FDEP                                       |

|                                                                                                                                                  |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>WIN ID/Field ID:</b> <br><b>WIN ID/Field ID:</b> FB_11202023 | <b>Comments:</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------|

Location: FB

Matrix: W-FIELD-BLANK

(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 (µmhos /cm) | Salinity (PPTH)       |              |   |
|------------------------------------|-------------------|-----------------------------------------------------------------------------|------------------------------------------|-------------------------------|------------------|--------------|-----------------|---------------------|-----------------------|--------------|---|
| 11/20/2023<br>1150                 |                   |                                                                             |                                          |                               |                  |              |                 |                     |                       |              |   |
| 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             | H2SO4*              | <2                    | 1            |   |
|                                    |                   | Lot #                                                                       |                                          | Exp:                          |                  |              |                 |                     |                       |              |   |
| Metals (P-500ML)                   |                   | W-ICPMS                                                                     |                                          | W-ICP                         | W-HARD           |              | Ice             | HNO3*               | <2                    |              |   |
|                                    |                   | Lot #                                                                       |                                          | Exp:                          |                  |              |                 |                     |                       |              |   |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                     |                                          | Field Filtered 0.45 µm Filter |                  |              | Ice             |                     |                       |              |   |
|                                    |                   | Filter Lot #                                                                | Syringe Lot #                            |                               |                  |              |                 |                     |                       |              |   |
| 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            | F |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                        |                                          |                               |                  |              | Ice             |                     |                       |              |   |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                  | Formalin Lot #                           |                               |                  |              | Formalin        |                     |                       |              |   |
| Periphyton (PT-500ML)              |                   | 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)                 | X                 | W-E8321-DI                                                                  | X                                        | W-E8321-MS                    |                  | X            | Ice             |                     |                       | 1            | F |
| 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 (BP-1L)              |                   | DTY-QN-C                                                                    | PKD-QN-BV                                |                               |                  | Ice          |                 |                     |                       |              |   |
| DOC (P-500ML)                      |                   | W-DOC                                                                       | Field Filtered 0.45 µm Filter            |                               |                  | Ice          | H2SO4*          |                     | <2                    |              |   |
|                                    |                   | Acid Preservative Expiration Date                                           |                                          |                               |                  |              |                 |                     |                       |              |   |
|                                    |                   | Acid Preservative Lot Number                                                |                                          |                               |                  |              |                 |                     |                       |              |   |

|                                                                                                                                               |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>WIN ID/Field ID:</b> <br><b>WIN ID/Field ID:</b> G4SE0154 | <b>Comments:</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------|

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 (µmhos /cm) | Salinity (PPT <sub>h</sub> ) |                       |              |
|------------------------------------|-----------|------------------------------------------------------------------------------|----------|------------------------------------------|------------------|--------------|-----------------|---------------------|------------------------------|-----------------------|--------------|
| 11/20/2023 1240                    | 6.84      | 79.5                                                                         | 22.7     | 6.8                                      | 0.35             | 0.7          | 0.7             | 587                 | 0.28                         |                       |              |
| 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                                    |                  | W-HARD       |                 | Ice                 |                              | HNO3*                 |              |
|                                    |           | Lot #                                                                        |          | Exp:                                     |                  |              |                 | <2                  |                              |                       |              |
| Filtered Nutrients (P125ML)        |           | W-PO4-F                                                                      |          | Field Filtered 0.45 um Filter            |                  |              |                 | Ice                 |                              |                       |              |
|                                    |           | Filter Lot #                                                                 |          | Syringe Lot #                            |                  |              |                 |                     |                              |                       |              |
| BOD (BP-1L)                        |           | OV-BODUNIN                                                                   |          |                                          |                  | Ice          |                 |                     |                              |                       |              |
| Chlorophyll (BP-1L)                |           | CHLSUITE-W                                                                   |          |                                          |                  | Ice          |                 |                     |                              |                       |              |
| Physical/Aggregate (Fresh) (P-1L)  |           | Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W- TD5 |          |                                          |                  | Ice          |                 |                     |                              |                       |              |
| Physical/Aggregate (Marine) (P-1L) |           | Alkalinity / 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) |           | X E Coli                                                                     |          | F Coli                                   |                  | Enterococci  |                 | x 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.             |              |
|                                    |           | W-PCL-TQ-R                                                                   |          | W-CARB-AA (5 ml of MCAA Buffer Solution) |                  | W-CT-CL-R    |                 |                     |                              | MCAA Lot#             |              |
|                                    |           | W-TR-SQ-R                                                                    |          | W-PCB-TQ-R                               |                  |              |                 |                     |                              |                       |              |
| Phytoplankton (BP-1L)              |           | DTY-QN-C                                                                     |          | PKD-QN-BV                                |                  |              |                 | Ice                 |                              |                       |              |
| DOC (P-500ML)                      |           | W-DOC                                                                        |          | Field Filtered 0.45 um Filter            |                  | Ice          |                 | H2SO 4*             |                              | <2                    |              |
|                                    |           |                                                                              |          | Acid Preservative Expiration Date        |                  |              |                 |                     |                              |                       |              |
|                                    |           |                                                                              |          | Acid Preservative Lot Number             |                  |              |                 |                     |                              |                       |              |

Date of Request: 17-OCT-2023  
 Created By: LUERING\_A On: 17-OCT-2023  
 Modified By: JASROTIA\_P On: 19-OCT-2023  
 Customer: SE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Southeast District  
 Event Description: Highlands Run

**Send Coolers To:**

Phone: (772) 380-5572  
 FL Dept. of Environmental Protection  
 2199 South Rock Road  
 Fort Pierce, FL 34945  
 Attn: Jordan Skaggs  
 Cooler Ship EMail: Jordan.Skaggs@FloridaDEP.gov

Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: AYRES\_J On: 19-OCT-2023  
 Biology Request Reviewed By: JASROTIA\_P On: 19-OCT-2023  
 Sampling Kit Required: YES Ship on: 30-OCT-2023  
 Sampling Kit Shipped: YES On: 30-OCT-2023  
 Sampling Kit Packed By: PENDLETO\_C  
 Preservatives Needed: NO  
 Date to Receive Samples: 06-NOV-2023  
 Logged In By:

**Send Final Report To:**

FL Dept. of Environmental Protection  
 2199 South Rock Road  
 Fort Pierce, FL 34945  
 Attn: Jordan Skaggs  
 Report Notification EMail:  
 Jordan.Skaggs@FloridaDEP.gov;Andrew.Luering@FloridaDEP.gov

**Comments:**

Bottle Group A (Nutrients and E. coli)  
 G4SE0157  
 G4SE0151  
 G4SE0150

Bottle Group B (Nutrients, E. coli, PCR, Tracers)  
 G4SE0149

Bottle Group C (Metals, E. coli, W-CT-CL-R/W-PCL-TQ-R/W-PCB-TQ-R)  
 G4SE0152

Bottle Group D (E. coli, PCR, Tracers)  
 G4SE0155

Bottle Group E (E. coli)  
 G4SE0154

Bottle Group F (Nutrients and Tracers)  
 Blank @ G4SE0149

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

|                       |                      |                                                                                                         |
|-----------------------|----------------------|---------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L     | Number of Bottles: 3 | 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                                                        |

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

|                             |                      |                                                                                                            |
|-----------------------------|----------------------|------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L           | Number of Bottles: 3 | Preserved With: ICE                                                                                        |
| 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 10150 B) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry      |
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 3 | Preserved With: ICE                                                                                        |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems |
| 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                                           |

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

|                             |                      |                                                                                                                                               |
|-----------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 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-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-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 10150 B) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                                         |
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                                                           |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems                                    |
| Bottle Type: QPCR-P-500ML   | Number of Bottles: 1 | Preserved With: ICE                                                                                                                           |
| PCR-BACR                    | Template: DEFAULT    | (SOP-PCR-1.4) Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction |
| PCR-DG3                     | Template: DEFAULT    | (SOP-PCR-1.5) Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction      |
| PCR-HF183                   | Template: DEFAULT    | (SOP-PCR-1.0) Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction     |
| Bottle Type: BG-500ML       | Number of Bottles: 1 | Preserved With: ICE                                                                                                                           |
| W-E8321-DI                  | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                       |
| W-E8321-MS                  | Template: SMP        | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                       |

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

|                               |                      |                                                                                                            |
|-------------------------------|----------------------|------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WO-THI   | Number of Bottles: 1 | Preserved With: ICE                                                                                        |
| ECOLI-18QT                    | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems |
| Bottle Type: BG-500ML FILL TO | Number of Bottles: 4 | Preserved With: ICE                                                                                        |
| W-CT-CI-R                     | Template: DEFAULT    | (EPA 8276) Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization            |
| W-PCB-TQ-R                    | Template: DEFAULT    | (EPA 8270E) PCBs in water matrices by GC/MS/MS                                                             |
| W-PCL-TQ-R                    | Template: DEFAULT    | (EPA 8270E) Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS               |
| Bottle Type: P-500ML          | Number of Bottles: 1 | Preserved With: HNO3                                                                                       |

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-HARD               | Template: DEFAULT    | (SM 2340 B-2011) 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                    |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |
| Barium               |                      |                                                                                                                                                |
| Beryllium            |                      |                                                                                                                                                |
| Boron                |                      |                                                                                                                                                |
| Cadmium              |                      |                                                                                                                                                |
| Chromium             |                      |                                                                                                                                                |
| Cobalt               |                      |                                                                                                                                                |
| Copper               |                      |                                                                                                                                                |
| Lead                 |                      |                                                                                                                                                |
| Manganese            |                      |                                                                                                                                                |
| Molybdenum           |                      |                                                                                                                                                |
| Nickel               |                      |                                                                                                                                                |
| Selenium             |                      |                                                                                                                                                |
| Silver               |                      |                                                                                                                                                |
| Thallium             |                      |                                                                                                                                                |

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

|                             |                      |                                                                                                                                               |
|-----------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                                                           |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems                                    |
| Bottle Type: QPCR-P-500ML   | Number of Bottles: 1 | Preserved With: ICE                                                                                                                           |
| PCR-BACR                    | Template: DEFAULT    | (SOP-PCR-1.4) Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction |
| PCR-DG3                     | Template: DEFAULT    | (SOP-PCR-1.5) Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction      |
| PCR-HF183                   | Template: DEFAULT    | (SOP-PCR-1.0) Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction     |
| Bottle Type: BG-500ML       | Number of Bottles: 1 | Preserved With: ICE                                                                                                                           |
| W-E8321-DI                  | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                       |
| W-E8321-MS                  | Template: SMP        | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                       |

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

|                             |                      |                                                                                                            |
|-----------------------------|----------------------|------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                        |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems |

**Bottle Group F (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) |

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

|                       |                   |                                                                                                 |                               |
|-----------------------|-------------------|-------------------------------------------------------------------------------------------------|-------------------------------|
| Bottle Type: P-1L     |                   | Number of Bottles: 1                                                                            | Preserved With: ICE           |
| 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: BG-500ML |                   | Number of Bottles: 1                                                                            | Preserved With: ICE           |
| W-E8321-DI            | Template: DEFAULT | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS         |                               |
| W-E8321-MS            | Template: SMP     | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS         |                               |
| 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                                |                               |

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