

RQ-2018-10-08-46

## Log-in Checklist

Login Station ID: #4

Shipping Method: FedEx | UPS | HD | GreyhoundDate/Time of Receipt: 10/24/18 @ 10:15a

| Cooler Temperature* | * All Samples in Cooler Preserved with |          | Number of Sample Containers in Cooler | Evidence Tape |    |          |    | Tracking # (fill out only if waybill copy is damaged) |
|---------------------|----------------------------------------|----------|---------------------------------------|---------------|----|----------|----|-------------------------------------------------------|
|                     | HNO <sub>3</sub>                       | Formalin |                                       | Present?      |    | *Intact? |    |                                                       |
|                     |                                        |          |                                       | Yes           | No | Yes      | No |                                                       |
| 1.8°C               |                                        |          | 14                                    |               | X  |          |    | 4385 5034 1446                                        |
|                     |                                        |          |                                       |               |    |          |    |                                                       |
|                     |                                        |          |                                       |               |    |          |    |                                                       |
|                     |                                        |          |                                       |               |    |          |    |                                                       |
|                     |                                        |          |                                       |               |    |          |    |                                                       |
|                     |                                        |          |                                       |               |    |          |    |                                                       |

\* HNO<sub>3</sub> and Formalin persevered samples do **NOT** have a temperature requirement. For all others, if the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX), or if Evidence Seal is damaged. Identify the containers in the affected cooler(s) on back of this form.

**\*\*Note:** If "No" is checked in any of the fields below, fill out the back of this form with additional details (Field ID, Test IDs, etc.) and generate an NCR.

\*\*Chain of Custody/ Field Sheet(s) Included? Yes ✓ No       

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes ✓ No        Date 10/24/18

## CONTAINER CHECK

\*\*Evidence Tape on Bottles? Yes        No        If yes, is it intact? Yes        No       

\*\*Caps on tight? Yes ✓ No        \*\*Containers intact? Yes ✓ No       

\*\*Sufficient Sample Volume: Yes ✓ No       

CHLORINE CHECK REQUIRED? (Blue dot on container) Yes ✓ No        Init: me

| Check the Box marked "Yes" or "No" for the Presence of Chlorine. If Cl detected, an NCR is required. |     |    |            |     |    |
|------------------------------------------------------------------------------------------------------|-----|----|------------|-----|----|
| Analysis                                                                                             | Yes | No | Analysis   | Yes | No |
| W-1,4 DIOX                                                                                           |     |    | W-PC-AA-SF |     |    |
| W-E8321-DI, -MS, -21                                                                                 |     | X  | W-NP-AA-SF |     |    |
| W-BNA (-625, -R)                                                                                     |     |    | W-PDQUAT   |     |    |
| W-CARB-AA (-CAB-AA-R)                                                                                |     |    | W-PCL-SQ-R |     |    |
| W-U2060-MS                                                                                           |     |    | W-TR-TQ    |     |    |
| W-PCB-R                                                                                              |     |    | W-CT-CI-R  |     |    |
| W-PAH (-R)                                                                                           |     |    | W-PSNP-TQ  |     |    |

## PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

\*\*Acid Preserved Samples: pH ≤ 2.0? Yes ✓ No        NA        Init: me

\*\*W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes        No        NA X Init: me

Coolers Unpacked/Checked by: Tyler K. Date: 10/24/18 NCRs (Y/N)? N

Event ID: Wolf / Crab / Little NCR #       

CEN-DIST-2018-10-24-02 (SMP)  
Page 1 of 2, 8/07 Date Received: 24-OCT-2018 10:1

## Log-in Checklist

### Samples with Incorrect pH Preservation or presence of Chlorine

| Field ID | Bottle Test ID(s) | pH / Cl | Action Taken |
|----------|-------------------|---------|--------------|
|          |                   |         |              |
|          |                   |         |              |
|          |                   |         |              |
|          |                   |         |              |

### Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

| Cooler ID | Field ID | Bottle Test ID(s) |
|-----------|----------|-------------------|
|           |          |                   |
|           |          |                   |
|           |          |                   |
|           |          |                   |

### Bottles Not Intact

| Field ID | Bottle Test ID(s) | Loose Cap | Damaged Cap |    | Damaged Container |    | Evidence Tape Not Intact |
|----------|-------------------|-----------|-------------|----|-------------------|----|--------------------------|
|          |                   |           | CK          | BR | CK                | BR |                          |
|          |                   |           |             |    |                   |    |                          |
|          |                   |           |             |    |                   |    |                          |
|          |                   |           |             |    |                   |    |                          |

### Samples with Insufficient Volume for Analyses

| Field ID | Bottle Test ID(s) | Action Taken |
|----------|-------------------|--------------|
|          |                   |              |
|          |                   |              |
|          |                   |              |
|          |                   |              |

### Additional Comments:

|                            |                       |
|----------------------------|-----------------------|
| Infrared Thermometer ID:   | REC_04_2018           |
| pH Paper 0.0 – 3.0 Lot #   | 230515 EXP:10/30/2018 |
| pH Paper 0 – 13 Lot #      | 222516 EXP:09/15/2019 |
| Chlorine Test Strips Lot # | 091417V EXP:09/2021   |

### ENCORE SAMPLES

**S-VOC-MS samples in Encores must be frozen within 48 hours of collection.**

Were Encore samples received?      Yes\_\_\_\_\_ No\_\_\_\_\_

Date and time placed in freezer \_\_\_\_\_

Were all samples placed in freezer within 48 hours of collection?    Yes\_\_\_\_\_ If    No\_\_\_\_\_

no, were samples shipped on dry ice?      Yes\_\_\_\_\_ No\_\_\_\_\_

#### FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check(W-HG-AF;W-HG-AF-F):

Samples preserved within 48 hours?      Yes\_\_\_\_\_ No\_\_\_\_\_

Date and time samples preserved: \_\_\_\_\_

# Florida Department of Environmental Protection

## Central Laboratory Submittal Form

Customer: CEN-DIST

Project ID: SMP

Requester: Michael Linger

Field Report Prepared By:

Terry Riordan

Collected By:

Terry Riordan / Elizabeth Bates

Sampling Agency:

21 FL CEN

|              |                                                             |           |                                                                                   |                |                                                                           |          |                                 |    |                                                                                 |              |                            |                           |                               |
|--------------|-------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------|----------|---------------------------------|----|---------------------------------------------------------------------------------|--------------|----------------------------|---------------------------|-------------------------------|
| Location     | WIN ID / Field ID →                                         |           |  |                | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab |          | Collection (comp begin or grab) |    | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central |              | Composite end              |                           | Bottle Group(s)<br>(See pg 2) |
| Field ID     | Wolf Creek @                                                |           |                                                                                   |                | Date                                                                      |          | 10/23/18                        |    | Time                                                                            |              | 0957                       |                           |                               |
| WIN/ST       | Deer Park Rd (3075)                                         |           |                                                                                   |                | Matrix (type, e.g., Salt, Fresh, etc)                                     |          | Diss. Oxygen                    |    | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat                 |              | Total Res. Chlorine (mg/L) |                           |                               |
| Latitude     | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms                       | Salinity (ppt) | 0.09                                                                      | Temp (C) | 23.73                           | pH | 7.13                                                                            | Sample Depth | 0.3                        | Sp. Conductance (umho/cm) |                               |
| Location     | WIN ID / Field ID →                                         |           |  |                | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab |          | Collection (comp begin or grab) |    | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central |              | Composite end              |                           | Bottle Group(s)               |
| Field ID     | Bull Creek @                                                |           |                                                                                   |                | Date                                                                      |          | 10/23/18                        |    | Time                                                                            |              | 1111                       |                           |                               |
| WIN/STC      | Upstream of 441 Bridge (3100)                               |           |                                                                                   |                | Matrix (type, e.g., Salt, Fresh, etc)                                     |          | Diss. Oxygen                    |    | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat                 |              | Total Res. Chlorine (mg/L) |                           |                               |
| Latitude     | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms                       | Salinity (ppt) | 0.04                                                                      | Temp (C) | 22.52                           | pH | 5.12                                                                            | Sample Depth | 0.3                        | Sp. Conductance (umho/cm) |                               |
| Location     | WIN ID / Field ID →                                         |           |  |                | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab |          | Collection (comp begin or grab) |    | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central |              | Composite end              |                           | Bottle Group(s)               |
| Field ID     | Crabgrass Creek @ 250m south of Highway 192 Bridge (3073)   |           |                                                                                   |                | Date                                                                      |          | 10/23/18                        |    | Time                                                                            |              | 1210                       |                           |                               |
| WIN/STC      |                                                             |           |                                                                                   |                | Matrix (type, e.g., Salt, Fresh, etc)                                     |          | Diss. Oxygen                    |    | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat                 |              | Total Res. Chlorine (mg/L) |                           |                               |
| Latitude     | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms                       | Salinity (ppt) | 0.11                                                                      | Temp (C) | 22.37                           | pH | 6.69                                                                            | Sample Depth | 0.3                        | Sp. Conductance (umho/cm) |                               |
| Location     | WIN ID / Field ID →                                         |           |                                                                                   |                | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            |          | Collection (comp begin or grab) |    | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central            |              | Composite end              |                           | Bottle Group(s)               |
| Field ID     |                                                             |           |                                                                                   |                | Date                                                                      |          |                                 |    | Time                                                                            |              |                            |                           |                               |
| WIN/STORET # |                                                             |           |                                                                                   |                | Matrix (type, e.g., Salt, Fresh, etc)                                     |          | Diss. Oxygen                    |    | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat                 |              | Total Res. Chlorine (mg/L) |                           |                               |
| Latitude     | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms                       | Salinity (ppt) |                                                                           | Temp (C) |                                 | pH |                                                                                 | Sample Depth |                            | Sp. Conductance (umho/cm) |                               |

|                  |               |                 |                            |              |                 |
|------------------|---------------|-----------------|----------------------------|--------------|-----------------|
| Relinquished By: | Date/Time     | Shipping Method | Number of Coolers Shipped: | Received By: | Date/Time       |
| Terry Riordan    | 10/23/18 1535 | Fed Ex          | 1                          | Tyler R.     | 10/24/18 010:15 |

|          |                                                                                    |                |                 |               |                                            |                                     |                            |
|----------|------------------------------------------------------------------------------------|----------------|-----------------|---------------|--------------------------------------------|-------------------------------------|----------------------------|
| Group: A | Bottle Type:                                                                       | P-1L           | # of Bottles: 1 | Preservative: | ICE                                        | Enter Number of Bottles Sent to Lab | <u>1</u>                   |
|          | ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS |                |                 |               |                                            |                                     |                            |
| Group: A | Bottle Type:                                                                       | P-250ML-WI-THI | # of Bottles: 1 | Preservative: | Na thiosulfate and Ice                     | Enter Number of Bottles Sent to Lab | <u>1 - sent to Flourno</u> |
|          | CD-FLR-ECQ                                                                         |                |                 |               |                                            |                                     |                            |
| Group: A | Bottle Type:                                                                       | BP-1L          | # of Bottles: 1 | Preservative: | ICE                                        | Enter Number of Bottles Sent to Lab | <u>1</u>                   |
|          | CHLSUITE-W                                                                         |                |                 |               |                                            |                                     |                            |
| Group: A | Bottle Type:                                                                       | QPCR-P-500ML   | # of Bottles: 1 | Preservative: | ICE                                        | Enter Number of Bottles Sent to Lab | <u>1</u>                   |
|          | PCR-FILTER                                                                         |                |                 |               |                                            |                                     |                            |
| Group: A | Bottle Type:                                                                       | BG-500ML       | # of Bottles: 1 | Preservative: | ICE                                        | Enter Number of Bottles Sent to Lab | <u>1</u>                   |
|          | W-E8321-DI<br>W-E8321-MS                                                           |                |                 |               |                                            |                                     |                            |
| Group: A | Bottle Type:                                                                       | P-500ML        | # of Bottles: 1 | Preservative: | ICE And H2SO4                              | Enter Number of Bottles Sent to Lab | <u>1</u>                   |
|          | W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC                                    |                |                 |               |                                            |                                     |                            |
|          |                                                                                    |                |                 |               | H2SO4<br>LOT# SA8101020<br>EXP: 04/11/2019 |                                     |                            |
| Group: A | Bottle Type:                                                                       | P-125ML        | # of Bottles: 1 | Preservative: | FILTER-ICE                                 | Enter Number of Bottles Sent to Lab | <u>1</u>                   |
|          | W-PO4-F                                                                            |                |                 |               |                                            |                                     |                            |
| Group: B | Bottle Type:                                                                       | P-1L           | # of Bottles: 1 | Preservative: | ICE                                        | Enter Number of Bottles Sent to Lab | <u>1</u>                   |
|          | ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC                   |                |                 |               |                                            |                                     |                            |

|          |                                                                                                    |                |                 |                                                                               |                                     |                     |
|----------|----------------------------------------------------------------------------------------------------|----------------|-----------------|-------------------------------------------------------------------------------|-------------------------------------|---------------------|
| Group: B | Bottle Type:<br>W-TDS<br>W-TSS                                                                     | P-1L           | # of Bottles: 1 | Preservative: ICE                                                             | Enter Number of Bottles Sent to Lab | 1                   |
| Group: B | Bottle Type:<br>CD-FLR-ECQ                                                                         | P-250ML-WI-THI | # of Bottles: 1 | Preservative: Na thiosulfate and Ice                                          | Enter Number of Bottles Sent to Lab | 1 - sent to Flowers |
| Group: B | Bottle Type:<br>CHLSUITE-W                                                                         | BP-1L          | # of Bottles: 1 | Preservative: ICE                                                             | Enter Number of Bottles Sent to Lab | 1                   |
| Group: B | Bottle Type:<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC                                    | P-500ML        | # of Bottles: 1 | Preservative: ICE And H2SO4<br><br>H2SO4<br>LOT# SA8101020<br>EXP: 04/11/2019 | Enter Number of Bottles Sent to Lab | 1                   |
| Group: B | Bottle Type:<br>W-PO4-F                                                                            | P-125ML        | # of Bottles: 1 | Preservative: FILTER-ICE                                                      | Enter Number of Bottles Sent to Lab | 1                   |
| Group: C | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS | P-1L           | # of Bottles: 1 | Preservative: ICE                                                             | Enter Number of Bottles Sent to Lab | 1                   |
| Group: C | Bottle Type:<br>CHLSUITE-W                                                                         | BP-1L          | # of Bottles: 1 | Preservative: ICE                                                             | Enter Number of Bottles Sent to Lab | 1                   |
| Group: C | Bottle Type:<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC                                    | P-500ML        | # of Bottles: 1 | Preservative: ICE And H2SO4<br><br>H2SO4<br>LOT# SA8101020<br>EXP: 04/11/2019 | Enter Number of Bottles Sent to Lab | 1                   |
| Group: C | Bottle Type:                                                                                       | P-125ML        | # of Bottles: 1 | Preservative: FILTER-ICE                                                      | Enter Number of Bottles Sent to Lab | 1                   |

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Group: C      Bottle Type: P-125ML      # of Bottles: 1      Preservative: FILTER-ICE      Enter Number of Bottles Sent to Lab 1

W-PO4-F

Cooler Packing Worksheet for Request: RQ-2018-10-08-46

Wolf / Crab / Little

Ship Cooler On: 9/28/2018

Customer/Project: CEN-DIST/SMP

Assigned To: GREENWOO\_J

Requester: Michael Linger

Priority: 3

407-897-4180  
FL Dept. of Environmental Protection  
3319 Maguire Blvd., Suite 232  
Orlando, FL 32803-3767  
  
Attn: Mike Linger

Comments:

No preservatives needed.

A: Little

B: Wolf

C: Crab

Requested Analyses:

**Bottle Group: A**

**# of Sites: 1**

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 0001991

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: P-250ML-WI-THI

Qty: 1 Preservation: Na thiosulfate and Ice

Lot # 21805

Description: 250 ml Sterilized with tablet

Analysis

CD-FLR-ECQ

Description

Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Chemical Laboratory in Altamonte Springs

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1227219

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: QPCR-P-500ML

Qty: 1 Preservation: ICE

Lot # 00071457

Description: 500ml Sterile Nalgene

Affix PCR Instruction Label to container

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 00071432

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00071864

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 00068347

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

# of Sites: 1



Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00071991

Description: Plastic Bottle 1L

**Analysis**

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

**Description**

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: P-250ML-WI-THI

Qty: 1 Preservation: Na thiosulfate and Ice

Lot # 118005

Description: 250 ml Sterilized with tablet

**Analysis**

CD-FLR-ECQ

**Description**

Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Chemical Laboratory in Altamonte Springs

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 122229

Description: Brown Plastic Bottle 1L

**Analysis**

CHLSUITE-W

**Description**

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00071864

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

**Analysis**

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

**Description**

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 00068347

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: C

# of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00071991

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1227219

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00071864

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 00068347

Description: Plastic Bottle 125 mL

**Analysis**

W-PO4-F

**Description**

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: GA

Number of Coolers: 1

Date: 9/28/18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☐ Acid Labels (sets of 24)

If Preservation Included:

|          |           |             |
|----------|-----------|-------------|
| ID _____ | Exp _____ | Lot # _____ |
| ID _____ | Exp _____ | Lot # _____ |
| ID _____ | Exp _____ | Lot # _____ |
| ID _____ | Exp _____ | Lot # _____ |
| ID _____ | Exp _____ | Lot # _____ |

**PLEASE RETURN ALL COOLERS FOR RQ-2018-10-08-46**



# CONTRACT LAB - CHAIN OF CUSTODY

Client Name: Department of Environmental Protection  
Address: 3319 Maguire Blvd Suite 232, Orlando, FL 32803  
Project Manager: Natalie Ayala / Michael Linger / Kalina Warren  
E-Mail: DEP-overflowmicro@dep.state.fl.us  
Telephone Number: (407) 897-4100

Project Name: SMP

Project Number: RQ- 2018- 10 -08-46

Site Location: Wolf/Bull Creeks

Contract/PO # FLOWERS - B3508E

Sampler Names: Terry Riordan

Signature: \_\_\_\_\_

| FIELD ID | Lab No.<br>(Lab Use Only) | Date     | Time Sampled | No. of Containers | Grab | Composite | Preservative |     |      |      | Matrix      |            |                |               | Analyze For:           |                   |                     |
|----------|---------------------------|----------|--------------|-------------------|------|-----------|--------------|-----|------|------|-------------|------------|----------------|---------------|------------------------|-------------------|---------------------|
|          |                           |          |              |                   |      |           | ICE          | HCL | HNO3 | NONE | Groundwater | Wastewater | Drinking Water | Surface Water | Escherichia Coli (ECQ) | Enterococci (ENQ) | Fecal Coliform (FC) |
| G3CE0007 | 0957                      | 10/23/18 |              | 1                 | X    |           | X            |     |      |      |             |            |                | X             | X                      |                   |                     |
| G3CE0009 | 1111                      | 10/23/18 |              | 1                 | X    |           | X            |     |      |      |             |            |                | X             | X                      |                   |                     |
|          |                           |          |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |          |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |          |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |          |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |          |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |          |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |          |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |

## Special Instructions:

Samples are ambient water and not suspected to contain chlorine

**Note to samplers:** For Site with E.coli only, email both custody and submittal forms to Joshua Ayers and cc John Watts.

| Relinquished by: | Date     | Time | Received by: | Date     | Time  | Comments                  |
|------------------|----------|------|--------------|----------|-------|---------------------------|
| Terry Riordan    | 10/23/18 | 1506 | [Signature]  | 10/23/18 | 15:06 | Temp Upon Receipt :       |
| Relinquished by: | Date     | Time | Received by: | Date     | Time  | Sample Containers Intact? |
|                  |          |      |              |          |       | Y N                       |

Date of Request: 20-SEP-2018  
 Created By: LINGER\_M On: 20-SEP-2018  
 Modified By: WATTS\_J On: 26-SEP-2018  
 Customer: CEN-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Central District  
 Sampling Event: Wolf / Crab / Little

**Send Coolers To:**

Phone: 407-897-4180  
 FL Dept. of Environmental Protection  
 3319 Maguire Blvd., Suite 232  
 Orlando, FL 32803-3767  
 Attn: Mike Linger

Program Module Number: 1306  
 Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 26-SEP-2018  
 Biology Request Reviewed By: SWANSON\_C On: 20-SEP-2018  
 Sampling Kit Required: YES Ship on: 01-OCT-2018  
 Sampling Kit Shipped: YES On: 28-SEP-2018  
 Sampling Kit Packed By: GREENWOO\_J  
 Preservatives Needed: NO  
 Date to Receive Samples: 08-OCT-2018  
 Received By:

**Send Final Report To:**

FL Dept. of Environmental Protection  
 3319 Maguire Blvd., Suite 232  
 Orlando, FL 32803-3767  
 Attn: Mike Linger

Report Type: Final Only  
 FTP Data: NO  
 QC Report: YES  
 Date Log: NO  
 Authorization Log: NO

Comments: A: Little  
 B: Wolf  
 C: Crab

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

|                             |                      |                                                                                                                                |
|-----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L           | Number of Bottles: 1 | Preserved With: ICE                                                                                                            |
| ALKALINITY                  | Template: DEFAULT    | (SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L                                                                    |
| TURBIDITY                   | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                             |
| W-CL-IC                     | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                                              |
| W-COLOR                     | Template: DEFAULT    | (SM 2120 B) True Color measured at 450 nm                                                                                      |
| Color (true)                |                      |                                                                                                                                |
| W-F                         | Template: DEFAULT    | (SM 4500 F-C-97) 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-97) Total Dissolved Solids in aqueous matrices                                                                      |
| W-TSS                       | Template: DEFAULT    | (SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                                  |
| Bottle Type: P-250ML-WI-THI | Number of Bottles: 1 | Preserved With: Na thiosulfate and Ice                                                                                         |
| CD-FLR-ECQ                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Chemical Laboratory in Altamonte Springs |
| Bottle Type: BP-1L          | Number of Bottles: 1 | Preserved With: ICE                                                                                                            |
| CHLSUITE-W                  | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                   |
| Bottle Type: QPCR-P-500ML   | Number of Bottles: 1 | Preserved With: ICE                                                                                                            |
| PCR-FILTER                  | Template: DEFAULT    | (SOP-PCR-4.0) Preparation of Samples by Filtration and held for qPCR Analysis                                                  |
| Bottle Type: BG-500ML       | Number of Bottles: 1 | Preserved With: ICE                                                                                                            |
| W-E8321-DI                  | Template:            | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                        |
| W-E8321-MS                  | Template: DEFAULT    | (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                                                             |

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

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                            |
| 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-00) Nonpurgeable Organic Carbon in aqueous matrices                           |
| Bottle Type: P-125ML | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                               |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

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

|                             |                      |                                                                                                                                |
|-----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: BP-1L          | Number of Bottles: 1 | Preserved With: ICE                                                                                                            |
| CHLSUITE-W                  | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                   |
| Bottle Type: P-500ML        | Number of Bottles: 1 | Preserved With: 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-00) Nonpurgeable Organic Carbon in aqueous matrices                                                                 |
| Bottle Type: P-125ML        | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                                                                     |
| W-PO4-F                     | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                                       |
| Bottle Type: P-1L           | Number of Bottles: 1 | Preserved With: ICE                                                                                                            |
| ALKALINITY                  | Template: DEFAULT    | (SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L                                                                    |
| TURBIDITY                   | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                             |
| W-CL-IC                     | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                                              |
| W-COLOR                     | Template: DEFAULT    | (SM 2120 B) True Color measured at 450 nm                                                                                      |
| Color (true)                |                      |                                                                                                                                |
| W-F                         | Template: DEFAULT    | (SM 4500 F-C-97) 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-97) Total Dissolved Solids in aqueous matrices                                                                      |
| W-TSS                       | Template: DEFAULT    | (SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                                  |
| Bottle Type: P-250ML-WI-THI | Number of Bottles: 1 | Preserved With: Na thiosulfate and Ice                                                                                         |
| CD-FLR-ECQ                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Chemical Laboratory in Altamonte Springs |

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

|                      |                      |                                                                                                              |
|----------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L    | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| ALKALINITY           | Template: DEFAULT    | (SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L                                                  |
| TURBIDITY            | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                           |
| W-CL-IC              | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                            |
| W-COLOR              | Template: DEFAULT    | (SM 2120 B) True Color measured at 450 nm                                                                    |
| Color (true)         |                      |                                                                                                              |
| W-F                  | Template: DEFAULT    | (SM 4500 F-C-97) 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-97) Total Dissolved Solids in aqueous matrices                                                    |
| W-TSS                | Template: DEFAULT    | (SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                |
| Bottle Type: BP-1L   | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| CHLSUITE-W           | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: 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-00) Nonpurgeable Organic Carbon in aqueous matrices                                               |
| Bottle Type: P-125ML | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                                                   |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                     |

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