

RQ- 2018091028

## Log-in Checklist

Login Station ID: #2

Shipping Method: FedEx | UPS | HD | GreyhoundDate/Time of Receipt: 9-12-18/9145

| 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 |                                                       |
| <u>1.9</u>          |                                        |          | <u>4</u>                              |               | <input checked="" type="checkbox"/> |          |    |                                                       |
|                     |                                        |          |                                       |               |                                     |          |    |                                                       |
|                     |                                        |          |                                       |               |                                     |          |    |                                                       |
|                     |                                        |          |                                       |               |                                     |          |    |                                                       |
|                     |                                        |          |                                       |               |                                     |          |    |                                                       |
|                     |                                        |          |                                       |               |                                     |          |    |                                                       |
|                     |                                        |          |                                       |               |                                     |          |    |                                                       |

\* 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

## 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:

| 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                                                                                 |     |    | 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: SR

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

Coolers Unpacked/Checked by: SR Date: 9-12-18

NCRs (Y/N)? N

Event ID: SE-DIST-2018-0912-01

NCR #

## 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_02_2018         |
| pH Paper 0.0 – 3.0 Lot #   | 230515 EXP:10-30-18 |
| pH Paper 0 – 13 Lot #      | 222516 EXP:08-15-19 |
| Chlorine Test Strips Lot # | 7226 EXP: 07/2020   |

### 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: \_\_\_\_\_

SMP- Blank

## Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: SE-DIST

Requester: Matt Sewell

Field Report Prepared By: Kristene Bonilla

Project ID: SMP

Collected By: Alexander Miranda

Sampling Agency: 21 FLWPB

|                                                     |                                                                        |                                                                           |                                                                        |                                                                                 |                                                                                 |                              |  |                                  |
|-----------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------|--|----------------------------------|
| Location<br>Cutler Drive (c-100) (CD-06 Miami Dade) |                                                                        | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 09/11/18 Time 12:00            |                                                                                 | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Composite end<br>Date Time   |  | Bottle<br>Group(s)<br>(See pg 2) |
| Field ID<br>Blank - 11092018                        |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                                        | Diss. Oxygen<br><input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)                                                   |                              |  |                                  |
| WIN/STORET #                                        |                                                                        | Temp<br>(C)                                                               | pH                                                                     | Sample<br>Depth                                                                 | <input type="checkbox"/> ft<br><input type="checkbox"/> m                       | Sp. Conductance<br>(umho/cm) |  |                                  |
| Latitude<br>25.6296726                              | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude<br>80.3179098                                                   | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity<br>(ppt)                                                               | Comments                                                                        |                              |  |                                  |
| Location                                            |                                                                        | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date Time                           |                                                                                 | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central            | Composite end<br>Date Time   |  | Bottle<br>Group(s)               |
| Field ID                                            |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                                        | Diss. Oxygen<br><input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)                                                   |                              |  |                                  |
| WIN/STORET #                                        |                                                                        | Temp<br>(C)                                                               | pH                                                                     | Sample<br>Depth                                                                 | <input type="checkbox"/> ft<br><input type="checkbox"/> m                       | Sp. Conductance<br>(umho/cm) |  |                                  |
| Latitude                                            | <input type="checkbox"/> dd<br><input type="checkbox"/> dms            | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms            | Salinity<br>(ppt)                                                               | Comments                                                                        |                              |  |                                  |
| Location                                            |                                                                        | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date Time                           |                                                                                 | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central            | Composite end<br>Date Time   |  | Bottle<br>Group(s)               |
| Field ID                                            |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                                        | Diss. Oxygen<br><input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)                                                   |                              |  |                                  |
| WIN/STORET #                                        |                                                                        | Temp<br>(C)                                                               | pH                                                                     | Sample<br>Depth                                                                 | <input type="checkbox"/> ft<br><input type="checkbox"/> m                       | Sp. Conductance<br>(umho/cm) |  |                                  |
| Latitude                                            | <input type="checkbox"/> dd<br><input type="checkbox"/> dms            | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms            | Salinity<br>(ppt)                                                               | Comments                                                                        |                              |  |                                  |
| Location                                            |                                                                        | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date Time                           |                                                                                 | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central            | Composite end<br>Date Time   |  | Bottle<br>Group(s)               |
| Field ID                                            |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                                        | Diss. Oxygen<br><input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)                                                   |                              |  |                                  |
| WIN/STORET #                                        |                                                                        | Temp<br>(C)                                                               | pH                                                                     | Sample<br>Depth                                                                 | <input type="checkbox"/> ft<br><input type="checkbox"/> m                       | Sp. Conductance<br>(umho/cm) |  |                                  |
| Latitude                                            | <input type="checkbox"/> dd<br><input type="checkbox"/> dms            | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms            | Salinity<br>(ppt)                                                               | Comments                                                                        |                              |  |                                  |

|                                      |                               |                           |                                 |                    |                           |
|--------------------------------------|-------------------------------|---------------------------|---------------------------------|--------------------|---------------------------|
| Relinquished By:<br>Kristene Bonilla | Date/Time<br>09/11/2018 18:00 | Shipping Method<br>Fed Ex | Number of Coolers Shipped:<br>3 | Received By:<br>SR | Date/Time<br>9-12-18/9:45 |
|--------------------------------------|-------------------------------|---------------------------|---------------------------------|--------------------|---------------------------|

|            |                   |                 |                   |                                     |   |
|------------|-------------------|-----------------|-------------------|-------------------------------------|---|
| Group: A   | Bottle Type: P-1L | # of Bottles: 1 | Preservative: ICE | Enter Number of Bottles Sent to Lab | 1 |
| ALKALINITY |                   |                 |                   |                                     |   |
| TURBIDITY  |                   |                 |                   |                                     |   |
| W-CL-IC    |                   |                 |                   |                                     |   |
| W-COLOR    |                   |                 |                   |                                     |   |
| W-F        |                   |                 |                   |                                     |   |
| W-SO4-IC   |                   |                 |                   |                                     |   |
| W-TDS      |                   |                 |                   |                                     |   |
| W-TSS      |                   |                 |                   |                                     |   |

---

|          |                      |                 |                    |                                     |   |
|----------|----------------------|-----------------|--------------------|-------------------------------------|---|
| Group: A | Bottle Type: P-500ML | # of Bottles: 1 | Preservative: HNO3 | Enter Number of Bottles Sent to Lab | 1 |
| W-ICP    |                      |                 |                    |                                     |   |
| W-ICPMS  |                      |                 |                    |                                     |   |

---

|          |                      |                 |                             |                                     |   |
|----------|----------------------|-----------------|-----------------------------|-------------------------------------|---|
| Group: A | Bottle Type: P-500ML | # of Bottles: 1 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 1 |
| W-NH3    |                      |                 |                             |                                     |   |
| W-NO2NO3 |                      |                 |                             |                                     |   |
| W-S-A-TP |                      |                 |                             |                                     |   |
| W-TKN    |                      |                 |                             |                                     |   |
| W-TOC    |                      |                 |                             |                                     |   |

---

|          |                      |                 |                          |                                     |   |
|----------|----------------------|-----------------|--------------------------|-------------------------------------|---|
| Group: A | Bottle Type: P-125ML | # of Bottles: 1 | Preservative: FILTER-ICE | Enter Number of Bottles Sent to Lab | 1 |
| W-PO4-F  |                      |                 |                          |                                     |   |

Date of Request: 15-AUG-2018  
 Created By: SEWELL\_M On: 15-AUG-2018  
 Modified By: WATTS\_J On: 27-AUG-2018  
 Customer: SE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Southeast District  
 Sampling Event: SMP- Blank

**Send Coolers To:**

Phone: (772) 448-5883  
 FL Dept. of Environmental Protection  
 2199 South Rock Road  
 Fort Pierce, FL 34945  
 Attn: Matthew Sewell

Program Module Number: 1306  
 Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 27-AUG-2018  
 Biology Request Reviewed By:  
 Sampling Kit Required: YES Ship on: 31-AUG-2018  
 Sampling Kit Shipped: YES On: 28-AUG-2018  
 Sampling Kit Packed By: GREENWOO\_J  
 Preservatives Needed: NO  
 Date to Receive Samples: 10-SEP-2018  
 Received By:

**Send Final Report To:**

FL Dept. of Environmental Protection  
 2199 South Rock Road  
 Fort Pierce, FL 34945  
 Attn: Matthew Sewell

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

Comments: Sampler Comments:  
 Blank for week

**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 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    | (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-SO <sub>4</sub> -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-500ML  | Number of Bottles: 1 | Preserved With: HNO <sub>3</sub>                                                                                                               |
| W-ICP                 | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium               |                      |                                                                                                                                                |
| Chromium              |                      |                                                                                                                                                |
| Iron                  |                      |                                                                                                                                                |
| Magnesium             |                      |                                                                                                                                                |
| Nickel                |                      |                                                                                                                                                |
| Potassium             |                      |                                                                                                                                                |
| Sodium                |                      |                                                                                                                                                |
| Zinc                  |                      |                                                                                                                                                |
| W-ICPMS               | Template:            | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Arsenic               |                      |                                                                                                                                                |
| Cadmium               |                      |                                                                                                                                                |
| Copper                |                      |                                                                                                                                                |
| Lead                  |                      |                                                                                                                                                |

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

Bottle Type: P-500ML      Number of Bottles: 1      Preserved With: HNO3  
W-ICPMS      Template:      (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

## Silver

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

**Do Not Lift Using This Tag**

ORIGIN ID: TLHA (772) 448-5885  
DREW LIDDICK  
FL DEP C/O UNIVERSITY OF FLORIDA  
2199 S ROCK RD

SHIP DATE: 16AUG18  
ACTWGT: 10.00 LB MAN  
CAD: 0446970/CAFE3210

FORT PIERCE, FL 34945  
UNITED STATES US

TO **JOHN WATTS**  
**FLORIDA DEP/CHEMISTRY SECTION**  
**2600 BLAIRSTONE RD**

**TALLAHASSEE FL 32399**

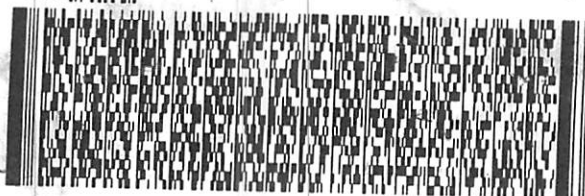
(850) 245-8077

INU:  
PO:

REF:

DEPT:

RMA: ||| ||| |||



**FedEx**  
Express



**FedEx**

TRK#  
0221

**4385 5032 4888**

**WED - 12 SEP 10:30A**  
**PRIORITY OVERNIGHT**

**36 TLHA**

**32399**

FL-US

**TLH**



#291157 09/11 552J1/F78C/DCAS

Cooler Packing Worksheet for Request: RQ-2018-09-10-28

SMP- Blank

Ship Cooler On: 8/31/2018

Customer/Project: SE-DIST/SMP

Assigned To: GREENWOO\_J

Requester: Matt Sewell

Priority: 3

(772) 448-5883  
FL Dept. of Environmental Protection  
2199 South Rock Road  
Fort Pierce, FL 34945  
  
Attn: Matthew Sewell

Comments:

No preservatives needed.

Sampler Comments:

Blank for week

Requested Analyses:

**Bottle Group: A**

**# 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-500ML

Qty: 1 Preservation: HNO3

Lot # 00072044

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

**Analysis**

W-ICP

W-ICPMS

**Description**

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 1

Preservation: ICE And H2SO4

Lot #

0072044

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 #

0070886

Description: Plastic Bottle 125 mL

**Analysis**

W-PO4-F

**Description**

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

Cooler Packed By:

J. Q.

Number of Coolers:

1

Date:

8/28/18

**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-2018-09-10-28**