

SCI Kit Bootheel Creek

## Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: SO-DIST

Requester: Corey R. Anderson

Field Report Prepared By: R. Murphy

Project ID: SMP

Collected By: B. DeBakey, C. Anderson, R. Murphy

Sampling Agency: SEC

|                                                                                                          |  |                                                                    |  |                                                                           |                                                           |                               |                               |                                    |
|----------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------|--|---------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------|
| Location<br>RQ-2016-12-05-16<br>12/7/2016<br>WBID 3201F<br>Bootheel Creek @ end of Price Rd.<br>STORET # |  | Field ID<br>G4SD120716-5<br>Field ID<br>FISSCR0014FTM              |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 12/7/16 Time 0940 | Eastern<br>Central            | Composite end<br>Date<br>Time | Bottle Group(s)<br>(See pg 2)<br>A |
| Matrix (type, e.g., Salt, Fresh, etc.)                                                                   |  |                                                                    |  | Diss. Oxygen<br>98                                                        |                                                           | Total Res. Chlorine<br>(mg/L) |                               |                                    |
| Temp (C) 22.9                                                                                            |  | pH 6.25                                                            |  | Sample Depth 0.3                                                          |                                                           | Sp. Conductance (umho/cm) 153 |                               |                                    |
| Latitude <input type="checkbox"/> dd <input type="checkbox"/> dms                                        |  | Longitude <input type="checkbox"/> dd <input type="checkbox"/> dms |  | Salinity (ppt)                                                            |                                                           | Comments                      |                               |                                    |
| Location<br>RQ-2016-12-05-16<br>12/7/2016<br>Field Blank                                                 |  | Field ID<br>G4SD120716-6<br>Field ID<br>Field Blank                |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 12-7-16 Time 945  | Eastern<br>Central            | Composite end<br>Date<br>Time | Bottle Group(s)<br>A               |
| Matrix (type, e.g., Salt, Fresh, etc.)<br>Blank                                                          |  |                                                                    |  | Diss. Oxygen                                                              |                                                           | Total Res. Chlorine<br>(mg/L) |                               |                                    |
| Temp (C)                                                                                                 |  | pH                                                                 |  | Sample Depth                                                              |                                                           | Sp. Conductance (umho/cm)     |                               |                                    |
| Latitude <input type="checkbox"/> dd <input type="checkbox"/> dms                                        |  | Longitude <input type="checkbox"/> dd <input type="checkbox"/> dms |  | Salinity (ppt)                                                            |                                                           | Comments                      |                               |                                    |
| Location                                                                                                 |  | Field ID                                                           |  | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date<br>Time           | Eastern<br>Central            | Composite end<br>Date<br>Time | Bottle Group(s)                    |
| Matrix (type, e.g., Salt, Fresh, etc.)                                                                   |  |                                                                    |  | Diss. Oxygen                                                              |                                                           | Total Res. Chlorine<br>(mg/L) |                               |                                    |
| Temp (C)                                                                                                 |  | pH                                                                 |  | Sample Depth                                                              |                                                           | Sp. Conductance (umho/cm)     |                               |                                    |
| Latitude <input type="checkbox"/> dd <input type="checkbox"/> dms                                        |  | Longitude <input type="checkbox"/> dd <input type="checkbox"/> dms |  | Salinity (ppt)                                                            |                                                           | Comments                      |                               |                                    |
| Location                                                                                                 |  | Field ID                                                           |  | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date<br>Time           | Eastern<br>Central            | Composite end<br>Date<br>Time | Bottle Group(s)                    |
| Matrix (type, e.g., Salt, Fresh, etc.)                                                                   |  |                                                                    |  | Diss. Oxygen                                                              |                                                           | Total Res. Chlorine<br>(mg/L) |                               |                                    |
| Temp (C)                                                                                                 |  | pH                                                                 |  | Sample Depth                                                              |                                                           | Sp. Conductance (umho/cm)     |                               |                                    |
| Latitude <input type="checkbox"/> dd <input type="checkbox"/> dms                                        |  | Longitude <input type="checkbox"/> dd <input type="checkbox"/> dms |  | Salinity (ppt)                                                            |                                                           | Comments                      |                               |                                    |

|                  |                         |                        |                              |                 |                          |
|------------------|-------------------------|------------------------|------------------------------|-----------------|--------------------------|
| Relinquished By: | Date/Time: 12-7-16 1500 | Shipping Method: Fedex | Number of Coolers Shipped: 1 | Received By: SK | Date/Time: 12-8-16 14:52 |
|------------------|-------------------------|------------------------|------------------------------|-----------------|--------------------------|

|          |              |         |                 |               |               |                                     |   |
|----------|--------------|---------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type: | P-1L    | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | ALKALINITY   |         |                 |               |               |                                     |   |
|          | TURBIDITY    |         |                 |               |               |                                     |   |
|          | W-CL-IC      |         |                 |               |               |                                     |   |
|          | W-COLOR      |         |                 |               |               |                                     |   |
|          | W-F          |         |                 |               |               |                                     |   |
|          | W-SO4-IC     |         |                 |               |               |                                     |   |
|          | W-TDS        |         |                 |               |               |                                     |   |
|          | W-TSS        |         |                 |               |               |                                     |   |
| Group: A | Bottle Type: | BP-1L   | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | CHLSUITE-W   |         |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML | # of Bottles: 2 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 2 |
|          | W-NH3        |         |                 |               |               |                                     |   |
|          | W-NO2NO3     |         |                 |               |               |                                     |   |
|          | W-S-A-TP     |         |                 |               |               |                                     |   |
|          | W-TKN        |         |                 |               |               |                                     |   |
|          | W-TOC        |         |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-125ML | # of Bottles: 2 | Preservative: | ICE-FLTR      | Enter Number of Bottles Sent to Lab | 2 |
|          | W-PO4-F      |         |                 |               |               |                                     |   |
| Group: B | Bottle Type: | PT-50ML | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | ALGAL_ID     |         |                 |               |               |                                     |   |
| Group: B | Bottle Type: | PJ-2L   | # of Bottles: 2 | Preservative: | Formalin      | Enter Number of Bottles Sent to Lab | 2 |
|          | MI-FW-QLDC   |         |                 |               |               |                                     |   |

Date of Request: 27-OCT-2016  
 Created By: ANDERSON\_C On: 27-OCT-2016  
 Modified By: MATTHEWS\_D On: 17-NOV-2016  
 Customer: SO-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District:  
 Sampling Event: SCI Kit Bootheel Creek

**Send Coolers To:**

Phone: 239-344-5610  
 FLDEP South District Office  
 2295 Victoria Ave. Suite 364  
 Fort Myers, FL 33901-3381  
 Attn: Corey Anderson

**Program Module Number:**

Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 16-NOV-2016  
 Biology Request Reviewed By: MATTHEWS\_D On: 17-NOV-2016  
 Sampling Kit Required: YES Ship on: 06-DEC-2016  
 Sampling Kit Shipped: YES On: 05-DEC-2016  
 Sampling Kit Packed By: SHAIK\_A  
 Preservatives Needed: NO  
 Date to Receive Samples: 05-DEC-2016  
 Received By:

**Send Final Report To:**

FLDEP South District Office  
 2295 Victoria Ave. Suite 364  
 Fort Myers, FL 33901-3381  
 Attn: Corey Anderson

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

Comments: Please log bottle set B as separate event.

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

|                                   |                      |                                                                                                                    |
|-----------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L                 | Number of Bottles: 2 | 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                                                          |
| Bottle Type: BP-1L                | Number of Bottles: 2 | Preserved With: ICE                                                                                                |
| CHLSUITE-W                        | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry |
| Bottle Type: P-500ML              | Number of Bottles: 2 | Preserved With: ICE And H <sub>2</sub> SO <sub>4</sub>                                                             |
| W-NH <sub>3</sub>                 | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                         |
| W-NO <sub>2</sub> NO <sub>3</sub> | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                                 |
| W-S-A-TP                          | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                                                |
| W-TKN                             | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                                                   |
| W-TOC                             | Template: DEFAULT    | (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices                                                     |
| Bottle Type: P-125ML              | Number of Bottles: 2 | Preserved With: ICE-FLTR                                                                                           |
| W-PO <sub>4</sub> -F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                           |

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

|                      |                      |                                                                        |
|----------------------|----------------------|------------------------------------------------------------------------|
| Bottle Type: PT-50ML | Number of Bottles: 1 | Preserved With: ICE                                                    |
| ALGAL_ID             | Template: DEFAULT    | (SOP-AB05) Qualitative assessment of algal taxa present without counts |
| Bottle Type: PJ-2L   | Number of Bottles: 2 | Preserved With: Formalin                                               |
| MI-FW-QLDC           | Template: DEFAULT    | (SOP-IZ06) No. Taxa of FW macroinverts, qual samp, 20 dipnets.         |

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

RQ-2016-1205-16

## Log-in Checklist

Shipping Method: FedexDate/Time of Receipt: 12-8-16/9:52

| Cooler ID | Cooler Temperature* | No. Sample Containers in Cooler | Evidence Tape   |                                     | Tracking # (fill out only if waybill copy is damaged) |
|-----------|---------------------|---------------------------------|-----------------|-------------------------------------|-------------------------------------------------------|
|           |                     |                                 | Present?<br>Yes | *Intact?<br>Yes                     |                                                       |
| Red       | 0.4                 | 10                              |                 | <input checked="" type="checkbox"/> | 810414022211                                          |
|           |                     |                                 |                 |                                     |                                                       |
|           |                     |                                 |                 |                                     |                                                       |
|           |                     |                                 |                 |                                     |                                                       |
|           |                     |                                 |                 |                                     |                                                       |
|           |                     |                                 |                 |                                     |                                                       |

\*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 ☐

## 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 (Blue dot on container)

| 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-AHERB-AA (-AHB-AA-R)                                                                               |     |    | W-PCL-SQ (-R) |     |    |
| W-BNA (-625, -R)                                                                                     |     |    | W-PDQUAT      |     |    |
| W-CARB-AA (-CAB-AA-R)                                                                                |     |    | W-PESTNP-R    |     |    |
| W-ENDO-AA                                                                                            |     |    | W-PSCL-TQ     |     |    |
| W-GLYPH                                                                                              |     |    | W-PSNP-TQ     |     |    |
| W-NP-AA-SF                                                                                           |     |    | W-PST-CL-R    |     |    |
| W-PAH (-R)                                                                                           |     |    | W-TR-TQ       |     |    |
| W-PCB-R                                                                                              |     |    |               |     |    |

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

\*\*Acid Preserved Samples: pH ≤ 2.0? Yes ☒ No ☐ NA ☐ Init: Slc

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

Coolers Unpacked/Checked by: Slc Date: 12-8-16

NCRs (Y/N)? N

Event ID: SO-DIST-2016-12-08-02

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 |
|----------|-------------------|--------------|
|          |                   |              |
|          |                   |              |
|          |                   |              |
|          |                   |              |

### ENCORE SAMPLES

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

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

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 \_\_\_\_\_

**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: \_\_\_\_\_

**Additional Comments:**