

## Shaik, Amzad

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**From:** Parrish, Jeremy M.  
**Sent:** Wednesday, June 12, 2019 14:49  
**To:** Shaik, Amzad; Kalmbacher, Amy; Ruben, Cheyanne  
**Cc:** Watts, John; Ayres, Joshua  
**Subject:** RE: SAMPLE CONTAINERS FOR METALS

There was no metals bottles collected on the C kit, so that should be Zero.

Thanks  
Jeremy

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**From:** Shaik, Amzad  
**Sent:** Wednesday, June 12, 2019 1:37 PM  
**To:** Kalmbacher, Amy <Amy.Kalmbacher@dep.state.fl.us>; Ruben, Cheyanne <Cheyanne.Ruben@FloridaDEP.gov>; Parrish, Jeremy M. <Jeremy.M.Parrish@dep.state.fl.us>  
**Cc:** Watts, John <John.Watts@FloridaDEP.gov>; Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>  
**Subject:** SAMPLE CONTAINERS FOR METALS

RQ-2019-06-10-19

According submittal form (GROUP-C) metal sample containers shipped to the lab, lab received only highlighted Group – B (2) & D (1) container .

Thanks.

*Amzad Shaik*  
*FLORIDA DEP LABS*  
*Scientific Support Section*  
*Office: 850-245-8081*  
*Direct: 58081*  
*[Amzad.shaik@dep.state.fl.us](mailto:Amzad.shaik@dep.state.fl.us)*

# Log-in Checklist

RQ- **2019 - 06 - 10 - 19**

Login Station ID: **# 3**

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: **06-12-2018 / 10:00**

| Cooler Temperature* | Samples Frozen | * All Samples in Cooler Preserved with |          | Number of Sample Containers in Cooler | Evidence Tape |    |          |    | Tracking #<br>Damaged waybills only |
|---------------------|----------------|----------------------------------------|----------|---------------------------------------|---------------|----|----------|----|-------------------------------------|
|                     |                |                                        |          |                                       | Present?      |    | *Intact? |    |                                     |
|                     | YES            | HNO <sub>3</sub>                       | Formalin |                                       | Yes           | No | Yes      | No |                                     |
| 3.4C                |                |                                        |          | 17                                    |               | X  |          |    | 4751 8778 6524                      |
| 2.6C                |                |                                        |          | 13                                    |               | X  |          |    | 4751 8778 6535                      |
|                     |                |                                        |          |                                       |               |    |          |    |                                     |
|                     |                |                                        |          |                                       |               |    |          |    |                                     |
|                     |                |                                        |          |                                       |               |    |          |    |                                     |
|                     |                |                                        |          |                                       |               |    |          |    |                                     |

\* 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 and microbiology), or if Evidence Seal is damaged. Identify the containers in the affected cooler(s) on back of this form. DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C) without login confirmation from customer for samples requiring ice preservation. An NCR still is required.

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

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes        No **X**

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

## CONTAINER CHECK

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

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

\*\*Sufficient Sample Volume: Yes **X** No       

CHLORINE CHECK REQUIRED? (Blue dot on container) Yes        No **X** Init: **ABS**

Chlorine detected? (One container checked per Field ID) Yes        No        Init: **ABS**

If "YES", list affected Field IDs and Test IDs below.

| Field ID | List TestID(s) where Chlorine was Detected, an NCR Is required. |
|----------|-----------------------------------------------------------------|
|          |                                                                 |
|          |                                                                 |
|          |                                                                 |
|          |                                                                 |

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

\*\*Acid Preserved Samples: pH ≤ 2.0? Yes **X** No        NA        Init: **ABS**

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

Coolers Unpacked/Checked by: **ABS** Date: **06-12-2019** NCRs (Y/N)?       

Event ID: **NE-DIST-2019-06-12-0 2** NCR #

## Log-in Checklist

### Samples with Incorrect pH Preservation

| Field ID | Bottle TestID(s) | pH | Action Taken |
|----------|------------------|----|--------------|
|          |                  |    |              |
|          |                  |    |              |
|          |                  |    |              |

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

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

### Bottles Not Intact

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

### Samples with Insufficient Volume for Analyses

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

### Additional Comments:

|                            |                            |
|----------------------------|----------------------------|
| Infrared Thermometer ID:   | REC 03 2018 EXP:04/29/2020 |
| pH Test Strips 0 – 6 Lot # | 213316AV EXP:05/15/2020    |
| pH Paper 0 – 3 Lot #       | 220416A EXP:07/30/2020     |
| pH Paper 0 – 13 Lot #      | 215517 exp:jun 1 2020      |
| Chlorine Test Strips Lot # | 8212 2021 / 05             |

### ENCORE SAMPLES

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

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

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**

LSJR East

last revised Jan 25, 2018

Customer: NE-DIST

Project ID: SMP

Requester: Jeremy M. Parrish

Field Report Prepared By:

Collected By:

Sampling Agency:

WIN ID/Field ID:



G2NE0005

Miller Creek at Atlantic Blvd.

|                                                                           |                                                                           |                             |                                                                            |                                                  |                                         |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------|
| <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <u>6-11-2019</u> Time <u>1110</u> | <u>Eastern</u><br>Central   | Composite end<br>Date _____ Time _____                                     | Bottle<br>Group(s)<br>(See pg 2)<br><br><u>A</u> |                                         |
| Matrix (type, e.g., Salt, <u>Fresh</u> , etc)                             |                                                                           | Diss. Oxygen<br><u>6.97</u> | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat |                                                  | Total Res. Chlorine<br>(mg/L)           |
| Temp<br>(C) <u>25.1</u>                                                   | pH <u>7.65</u>                                                            | Sample<br>Depth <u>0.15</u> | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       |                                                  | Sp. Conductance<br>(umho/cm) <u>351</u> |
| Salinity<br>(ppt) <u>0.17</u>                                             |                                                                           |                             |                                                                            |                                                  |                                         |

Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms

WIN ID/Field ID:



20030872

NEWCASTLE CR @ FT CAROLINE HILLS RD

|                                                                           |                                                                           |                             |                                                                            |                                    |                                         |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------|------------------------------------|-----------------------------------------|
| <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <u>6-11-2019</u> Time <u>1010</u> | <u>Eastern</u><br>Central   | Composite end<br>Date _____ Time _____                                     | Bottle<br>Group(s)<br><br><u>C</u> |                                         |
| Matrix (type, e.g., Salt, <u>Fresh</u> , etc)                             |                                                                           | Diss. Oxygen<br><u>5.8</u>  | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat |                                    | Total Res. Chlorine<br>(mg/L)           |
| Temp<br>(C) <u>24.2</u>                                                   | pH <u>7.68</u>                                                            | Sample<br>Depth <u>0.07</u> | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       |                                    | Sp. Conductance<br>(umho/cm) <u>258</u> |
| Salinity<br>(ppt) <u>0.12</u>                                             |                                                                           |                             |                                                                            |                                    |                                         |

Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms

metal bottle not received ABG 6-12-19

Field ID:



20030872 DUP

Location: NEWCASTLE CR @ FT CAROLINE HILLS RD

WIN ID:



20030872

|                                                                           |                                                                           |                             |                                                                            |                                    |                                         |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------|------------------------------------|-----------------------------------------|
| <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <u>6-11-2019</u> Time <u>1015</u> | <u>Eastern</u><br>Central   | Composite end<br>Date _____ Time _____                                     | Bottle<br>Group(s)<br><br><u>C</u> |                                         |
| Matrix (type, e.g., Salt, <u>Fresh</u> , etc)                             |                                                                           | Diss. Oxygen<br><u>5.8</u>  | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat |                                    | Total Res. Chlorine<br>(mg/L)           |
| Temp<br>(C) <u>24.2</u>                                                   | pH <u>7.68</u>                                                            | Sample<br>Depth <u>0.07</u> | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       |                                    | Sp. Conductance<br>(umho/cm) <u>258</u> |
| Salinity<br>(ppt) <u>0.12</u>                                             |                                                                           |                             |                                                                            |                                    |                                         |

Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms

metal bottle not received. ABG 6-12-19

NEWCASTLE CR @ FT CAROLINE HILLS RD

Field ID:



FB 06112019

|                                                                           |                                                                           |                           |                                                                 |                                    |                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------|------------------------------------|-------------------------------|
| <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <u>6-11-2019</u> Time <u>1020</u> | <u>Eastern</u><br>Central | Composite end<br>Date _____ Time _____                          | Bottle<br>Group(s)<br><br><u>D</u> |                               |
| Matrix (type, e.g., Salt, <u>Fresh</u> , etc)                             |                                                                           | Diss. Oxygen              | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat |                                    | Total Res. Chlorine<br>(mg/L) |
| Temp<br>(C)                                                               | pH                                                                        | Sample<br>Depth           | <input type="checkbox"/> ft<br><input type="checkbox"/> m       |                                    | Sp. Conductance<br>(umho/cm)  |
| Salinity<br>(ppt)                                                         |                                                                           |                           |                                                                 |                                    |                               |

Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

A. Kalmbacher 6-11-2019

FedEx

2

ABG

6-12-19 / 10:00

1330

|          |                                                                                    |         |                 |               |               |                                     |   |
|----------|------------------------------------------------------------------------------------|---------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type:                                                                       | P-1L    | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F<br>W-TSS                                 |         |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | BP-1L   | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | CHLSUITE-W                                                                         |         |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | P-500ML | # of Bottles: 1 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 1 |
|          | W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>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                                                                            |         |                 |               |               |                                     |   |
| Group: B | Bottle Type:                                                                       | P-1L    | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS |         |                 |               |               |                                     |   |
| Group: B | Bottle Type:                                                                       | BP-1L   | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | CHLSUITE-W                                                                         |         |                 |               |               |                                     |   |
| Group: B | Bottle Type:                                                                       | P-500ML | # of Bottles: 2 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 2 |
|          | W-ICP<br>W-ICPMS                                                                   |         |                 |               |               |                                     |   |
| Group: B | Bottle Type:                                                                       | P-500ML | # of Bottles: 2 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 2 |
|          | W-NH3<br>W-NO2NO3                                                                  |         |                 |               |               |                                     |   |

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

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

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|          |              |         |                 |               |               |                                     |   |
|----------|--------------|---------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: D | 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        |         |                 |               |               |                                     |   |

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

|          |              |         |                 |                             |                                     |   |
|----------|--------------|---------|-----------------|-----------------------------|-------------------------------------|---|
| Group: B | Bottle Type: | P-500ML | # of Bottles: 2 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 2 |
|          | W-S-A-TP     |         |                 |                             |                                     |   |
|          | W-TKN        |         |                 |                             |                                     |   |
|          | W-TOC        |         |                 |                             |                                     |   |
| Group: B | Bottle Type: | P-125ML | # of Bottles: 2 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab | 2 |
|          | W-PO4-F      |         |                 |                             |                                     |   |
| Group: C | Bottle Type: | P-1L    | # of Bottles: 3 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | ALKALINITY   |         |                 |                             |                                     |   |
|          | TURBIDITY    |         |                 |                             |                                     |   |
|          | W-CL-IC      |         |                 |                             |                                     |   |
|          | W-COLOR      |         |                 |                             |                                     |   |
|          | W-F          |         |                 |                             |                                     |   |
|          | W-SO4-IC     |         |                 |                             |                                     |   |
|          | W-TDS        |         |                 |                             |                                     |   |
|          | W-TSS        |         |                 |                             |                                     |   |
| Group: C | Bottle Type: | BP-1L   | # of Bottles: 3 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | CHLSUITE-W   |         |                 |                             |                                     |   |
| Group: C | Bottle Type: | P-500ML | # of Bottles: 3 | Preservative: HNO3          | Enter Number of Bottles Sent to Lab | 3 |
|          | W-ICP        |         |                 |                             |                                     |   |
|          | W-ICPMS      |         |                 |                             |                                     |   |
| Group: C | Bottle Type: | P-500ML | # of Bottles: 3 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 3 |
|          | W-NH3        |         |                 |                             |                                     |   |
|          | W-NO2NO3     |         |                 |                             |                                     |   |
|          | W-S-A-TP     |         |                 |                             |                                     |   |
|          | W-TKN        |         |                 |                             |                                     |   |
|          | W-TOC        |         |                 |                             |                                     |   |
| Group: C | Bottle Type: | P-125ML | # of Bottles: 3 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab | 3 |
|          | W-PO4-F      |         |                 |                             |                                     |   |
| Group: D | Bottle Type: | P-1L    | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | ALKALINITY   |         |                 |                             |                                     |   |
|          | TURBIDITY    |         |                 |                             |                                     |   |
|          | W-CL-IC      |         |                 |                             |                                     |   |
|          | W-COLOR      |         |                 |                             |                                     |   |

LSJR East

## Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Jeremy M. Parrish

Field Report Prepared By: A. Kalmbacher

Project ID: SMP

Collected By: C. Ruben

Sampling Agency: FDEP/NE ROC

|                                                                   |                                                                                   |                                                                           |                                                             |                                                                 |                                                                            |                                     |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------|
| WIN ID/Field ID:<br>20030579                                      |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 6-11-2019 Time 0935 | Eastern<br>Central                                              | Composite end<br>Date Time                                                 | Bottle Group(s)<br>(See pg 2)       |
| STRAWBERRY CR AT END OF BOWLAN RD.                                |                                                                                   | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                             | Diss. Oxygen<br>5.29                                            | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)       |
| Temp (C) 25.2                                                     |                                                                                   | pH 7.75                                                                   |                                                             | Sample Depth 0.15                                               | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       | Sp. Conductance<br>(umho/cm) 352    |
| Latitude <input type="checkbox"/> dd <input type="checkbox"/> dms |                                                                                   | Longitude <input type="checkbox"/> dd <input type="checkbox"/> dms        |                                                             | Salinity (ppt) 0.17                                             |                                                                            |                                     |
| Comments: metal bottle not received. AB 6-12-19                   |                                                                                   |                                                                           |                                                             |                                                                 |                                                                            |                                     |
| WIN ID/Field ID:<br>20030809                                      |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 6-11-2019 Time 0905 | Eastern<br>Central                                              | Composite end<br>Date Time                                                 | Bottle Group(s)                     |
| GREENFIELD CREEK @ QUEENS HARBOUR BLVD.                           |                                                                                   | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                             | Diss. Oxygen<br>5.44                                            | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)       |
| Temp (C) 26.6                                                     |                                                                                   | pH 7.38                                                                   |                                                             | Sample Depth 0.1                                                | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       | Sp. Conductance<br>(umho/cm) 23,607 |
| Latitude <input type="checkbox"/> dd <input type="checkbox"/> dms |                                                                                   | Longitude <input type="checkbox"/> dd <input type="checkbox"/> dms        |                                                             | Salinity (ppt) 14.26                                            |                                                                            |                                     |
| Comments:                                                         |                                                                                   |                                                                           |                                                             |                                                                 |                                                                            |                                     |
| WIN ID/Field ID:<br>G2NE1181                                      |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 6-11-2019 Time 1150 | Eastern<br>Central                                              | Composite end<br>Date Time                                                 | Bottle Group(s)                     |
| Puncheon above Point Meadows Dr                                   |                                                                                   | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                             | Diss. Oxygen<br>3.5                                             | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)       |
| Temp (C) 25.8                                                     |                                                                                   | pH 7.45                                                                   |                                                             | Sample Depth 0.3                                                | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       | Sp. Conductance<br>(umho/cm) 459    |
| Latitude <input type="checkbox"/> dd <input type="checkbox"/> dms |                                                                                   | Longitude <input type="checkbox"/> dd <input type="checkbox"/> dms        |                                                             | Salinity (ppt) 0.22                                             |                                                                            |                                     |
| Comments:                                                         |                                                                                   |                                                                           |                                                             |                                                                 |                                                                            |                                     |
| Location                                                          | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab                    | Collection (comp begin or grab)<br>Date Time                              | Eastern<br>Central                                          | Composite end<br>Date Time                                      | Bottle Group(s)                                                            |                                     |
| Field ID                                                          | Matrix (type, e.g., Salt, Fresh, etc)                                             |                                                                           | Diss. Oxygen                                                | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)                                              |                                     |
| WIN/STORET #                                                      | Temp (C)                                                                          |                                                                           | pH                                                          | Sample Depth                                                    | <input type="checkbox"/> ft<br><input type="checkbox"/> m                  | Sp. Conductance<br>(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

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

1330

2

AB

6-12-19/10-00

|          |              |         |                 |               |               |                                     |
|----------|--------------|---------|-----------------|---------------|---------------|-------------------------------------|
| Group: A | Bottle Type: | P-1L    | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | ALKALINITY   |         |                 |               |               |                                     |
|          | TURBIDITY    |         |                 |               |               |                                     |
|          | W-BR-IC      |         |                 |               |               |                                     |
|          | W-F          |         |                 |               |               |                                     |
|          | W-TSS        |         |                 |               |               |                                     |
| Group: A | Bottle Type: | BP-1L   | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | CHLSUITE-W   |         |                 |               |               |                                     |
| Group: A | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
|          | 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 |
|          | W-PO4-F      |         |                 |               |               |                                     |
| Group: B | Bottle Type: | P-1L    | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | ALKALINITY   |         |                 |               |               |                                     |
|          | TURBIDITY    |         |                 |               |               |                                     |
|          | W-CL-IC      |         |                 |               |               |                                     |
|          | W-COLOR      |         |                 |               |               |                                     |
|          | W-F          |         |                 |               |               |                                     |
|          | W-SO4-IC     |         |                 |               |               |                                     |
|          | W-TDS        |         |                 |               |               |                                     |
|          | W-TSS        |         |                 |               |               |                                     |
| Group: B | Bottle Type: | BP-1L   | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | CHLSUITE-W   |         |                 |               |               |                                     |
| Group: B | Bottle Type: | P-500ML | # of Bottles: 2 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab |
|          | W-ICP        |         |                 |               |               |                                     |
|          | W-ICPMS      |         |                 |               |               |                                     |
| Group: B | Bottle Type: | P-500ML | # of Bottles: 2 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
|          | W-NH3        |         |                 |               |               |                                     |
|          | W-NO2NO3     |         |                 |               |               |                                     |

Date of Request: 03-MAY-2019  
 Created By: PARRISH\_J On: 03-MAY-2019  
 Modified By: JASROTIA\_P On: 22-MAY-2019  
 Customer: NE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northeast District  
 Sampling Event: LSJR East

**Send Coolers To:**

Phone: 904-807-3300  
 8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish

**Send Final Report To:**

8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish

**Program Module Number:**

Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 22-MAY-2019  
 Biology Request Reviewed By: JASROTIA\_P On: 22-MAY-2019  
 Sampling Kit Required: YES Ship on: 04-JUN-2019  
 Sampling Kit Shipped: YES On: 05-JUN-2019  
 Sampling Kit Packed By: REYNOLDS\_T  
 Preservatives Needed: NO  
 Date to Receive Samples: 10-JUN-2019  
 Received By: SHAIK\_A On: 12-JUN-2019

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

Comments: Group A: (Surf-Salt) Nutrients,  
 Group B:(Surf-Fresh) Nutrients, Metals,  
 Group C:(Surf-Fresh )Nutrients, Metals,  
 Group D(Blank):Nutrients,

Packing Notes:  
 None

**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-BR-IC                           | Template: DEFAULT    | (EPA 300.0) Bromide in aqueous matrices                                                                      |
| W-F                               | Template: DEFAULT    | (SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)         |
| 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 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: 1 | Preserved With: FILTER-ICE                                                                                   |
| 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 (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                        |

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L    | Number of Bottles: 2 | Preserved With: ICE                                                                                                                            |
| 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: 2 | Preserved With: ICE                                                                                                                            |
| CHLSUITE-W           | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                                   |
| Bottle Type: P-500ML | Number of Bottles: 2 | Preserved With: HNO3                                                                                                                           |
| 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 |
| Barium               |                      |                                                                                                                                                |
| Calcium              |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| 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                    |
| *Boron               |                      |                                                                                                                                                |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |
| Cadmium              |                      |                                                                                                                                                |
| Chromium             |                      |                                                                                                                                                |
| Copper               |                      |                                                                                                                                                |
| Lead                 |                      |                                                                                                                                                |
| Nickel               |                      |                                                                                                                                                |
| Selenium             |                      |                                                                                                                                                |
| Silver               |                      |                                                                                                                                                |
| Thallium             |                      |                                                                                                                                                |

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 2 | 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: 2 | Preserved With: FILTER-ICE                                                               |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

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

|                      |                      |                                                                                                              |
|----------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L    | Number of Bottles: 3 | 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: 3 | 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: 3 | Preserved With: HNO3                                                                                         |

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 3 | Preserved With: HNO3                                                                                                                           |
| 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 |
| Barium               |                      |                                                                                                                                                |
| Calcium              |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| 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                    |
| *Boron               |                      |                                                                                                                                                |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |
| Cadmium              |                      |                                                                                                                                                |
| Chromium             |                      |                                                                                                                                                |
| Copper               |                      |                                                                                                                                                |
| Lead                 |                      |                                                                                                                                                |
| Nickel               |                      |                                                                                                                                                |
| Selenium             |                      |                                                                                                                                                |
| Silver               |                      |                                                                                                                                                |
| Thallium             |                      |                                                                                                                                                |

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 3 | Preserved With: ICE And H2SO4                                                            |
| W-NH3                | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                               |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                       |
| W-S-A-TP             | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                      |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                         |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices                           |
| Bottle Type: P-125ML | Number of Bottles: 3 | 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 D (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-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| 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 |
| Barium               |                      |                                                                                                                                                |
| Calcium              |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| 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                    |
| *Boron               |                      |                                                                                                                                                |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |

**Bottle Group D (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 |

Cadmium  
 Chromium  
 Copper  
 Lead  
 Nickel  
 Selenium  
 Silver  
 Thallium

|                      |                      |                                                                     |
|----------------------|----------------------|---------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                       |
| W-NH3                | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L          |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L  |
| W-S-A-TP             | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices    |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-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.