

# Log-in Checklist

RQ- 2018-07-16-16

Login Station ID: #4

Shipping Method: FedEx | UPS (HD) | Greyhound | \_\_\_\_\_

Date/Time of Receipt: 7/18/18 9:30 9a

| Cooler ID   | Cooler Temperature* | No. Sample Containers in Cooler | Evidence Tape |  | *Intact? |                                     | Tracking # (fill out only if waybill copy is damaged) |
|-------------|---------------------|---------------------------------|---------------|--|----------|-------------------------------------|-------------------------------------------------------|
|             |                     |                                 | Present?      |  | Yes      | No                                  |                                                       |
| <u>REF0</u> | <u>4.6°C</u>        | <u>10</u>                       |               |  |          | <input checked="" type="checkbox"/> |                                                       |
|             |                     |                                 |               |  |          |                                     |                                                       |
|             |                     |                                 |               |  |          |                                     |                                                       |
|             |                     |                                 |               |  |          |                                     |                                                       |
|             |                     |                                 |               |  |          |                                     |                                                       |
|             |                     |                                 |               |  |          |                                     |                                                       |

\*If the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX), or if Evidence Seal is damaged, identify the containers in the affected cooler(s) on back of this form.

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

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

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes ☐ No ☒ Date 7/18/18

## CONTAINER CHECK

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

\*\*Caps on tight? Yes ☒ No ☐ \*\*Containers intact? Yes ☒ No ☐

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

CHLORINE CHECK REQUIRED? (Blue dot on container) Yes ☒ No ☒ Init: JD

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

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

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

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

Coolers Unpacked/Checked by: JD Date: 7/18/18 NCRs (Y/N)? ☐

Event ID: WAS-SECT-2018-07-18-01 NCR # ☐

## Log-in Checklist

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

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

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

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

### Bottles Not Intact

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

### Samples with Insufficient Volume for Analyses

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

### Additional Comments:

|                            |                       |
|----------------------------|-----------------------|
| Infrared Thermometer ID:   | REC_04_2018           |
| pH Paper 0.0 – 3.0 Lot #   | 230515 EXP:10/30/2018 |
| pH Paper 0 – 13 Lot #      | 222516 EXP:08/15/2019 |
| Chlorine Test Strips Lot # | 8062 EXP:12/2020      |

### ENCORE SAMPLES

*9.2.18*

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

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

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

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

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

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

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

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

Wakulla BMAP

## Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

J. Burchett, C. Green

Project ID: BMAP

Collected By:

J. Burchett

Sampling Agency:

8034

|              |  |                                                             |  |                                                                           |  |                                                             |  |                                                                            |  |                                                                      |  |                               |  |
|--------------|--|-------------------------------------------------------------|--|---------------------------------------------------------------------------|--|-------------------------------------------------------------|--|----------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|-------------------------------|--|
| Location     |  | ↓ Location ↓                                                |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab |  | Collection (comp begin or grab)<br>Date 7/17/18 Time 1035   |  | Eastern<br>Central                                                         |  | Composite end<br>Date - Time -                                       |  | Bottle Group(s)<br>(See pg 2) |  |
| Field ID     |  | WIN ID/Field ID                                             |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh                            |  | Diss. Oxygen<br>4.28                                        |  | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat |  | Total Res. Chlorine<br>(mg/L)                                        |  | A, B                          |  |
| WIN/STORET # |  | 34879                                                       |  | Temp (C)<br>21.5                                                          |  | pH<br>7.70                                                  |  | Sample Depth<br>0.3                                                        |  | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m |  |                               |  |
| Latitude     |  | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Longitude                                                                 |  | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Salinity (ppt)<br>0.02                                                     |  | Comments                                                             |  |                               |  |
| Location     |  | Wakulla River @ CR 365                                      |  | <input checked="" type="checkbox"/> Comp<br><input type="checkbox"/> Grab |  | Collection (comp begin or grab)<br>Date 7/17/18 Time 1035   |  | Eastern<br>Central                                                         |  | Composite end<br>Date - Time -                                       |  | Bottle Group(s)               |  |
| Field ID     |  | 34879                                                       |  | Matrix (type, e.g., Salt, Fresh, etc)                                     |  | Diss. Oxygen                                                |  | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat            |  | Total Res. Chlorine (mg/L)                                           |  | B                             |  |
| WIN/STORET # |  |                                                             |  | Temp (C)                                                                  |  | pH                                                          |  | Sample Depth                                                               |  | <input type="checkbox"/> ft<br><input type="checkbox"/> m            |  |                               |  |
| Latitude     |  | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Longitude                                                                 |  | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Salinity (ppt)                                                             |  | Comments                                                             |  | SE / DONE                     |  |
| 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 (mg/L)                                           |  |                               |  |
| WIN/STORET # |  |                                                             |  | Temp (C)                                                                  |  | pH                                                          |  | Sample Depth                                                               |  | <input type="checkbox"/> ft<br><input type="checkbox"/> m            |  |                               |  |
| Latitude     |  | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Longitude                                                                 |  | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Salinity (ppt)                                                             |  | 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 (mg/L)                                           |  |                               |  |
| WIN/STORET # |  |                                                             |  | Temp (C)                                                                  |  | pH                                                          |  | Sample Depth                                                               |  | <input type="checkbox"/> ft<br><input type="checkbox"/> m            |  |                               |  |
| Latitude     |  | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Longitude                                                                 |  | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Salinity (ppt)                                                             |  | 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 (mg/L)                                           |  |                               |  |
| WIN/STORET # |  |                                                             |  | Temp (C)                                                                  |  | pH                                                          |  | Sample Depth                                                               |  | <input type="checkbox"/> ft<br><input type="checkbox"/> m            |  |                               |  |
| Latitude     |  | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Longitude                                                                 |  | <input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Salinity (ppt)                                                             |  | Comments                                                             |  |                               |  |

|                  |              |                 |                            |              |                 |
|------------------|--------------|-----------------|----------------------------|--------------|-----------------|
| Relinquished By: | Date/Time    | Shipping Method | Number of Coolers Shipped: | Received By: | Date/Time       |
| JB, CG           | 7/18/18: 818 | HD              | 1                          | [Signature]  | 7-18-18 / 08:18 |

\* Correction by sampler 7/20/18

|          |                                                                                    |                |                 |               |               |                                     |   |
|----------|------------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type:                                                                       | P-1L           | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | BP-1L          | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | CHLSUITE-W                                                                         |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | P-250ML-WO-THI | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ECOLI-18QT                                                                         |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | BG-500ML       | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | W-E8321-DI<br>W-E8321-MS                                                           |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | P-500ML        | # of Bottles: 2 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 1 |
|          | W-ICP<br>W-ICPMS                                                                   |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | P-500ML        | # of Bottles: 2 | 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: 2 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab | 1 |
|          | W-PO4-F                                                                            |                |                 |               |               |                                     |   |
| Group: B | Bottle Type:                                                                       | PT-50ML        | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALGAL_ID                                                                           |                |                 |               |               |                                     |   |
| Group: B | Bottle Type:                                                                       | PJ-2L          | # of Bottles: 4 | Preservative: | Formalin      | Enter Number of Bottles Sent to Lab | 2 |
|          | MI-FW-QLDC                                                                         |                |                 |               |               |                                     |   |

# Florida Department of Environmental Protection

## Central Laboratory Submittal Form

Wakulla BMAP

last revised Jan 25, 2018

Customer: WAS-SECT

Requester: Curtis MussonField Report Prepared By: J. Burchett, C. Green

Project ID: BMAP

Collected By: J. BurchettSampling Agency: 8034

|                                                                   |                 |                                                                    |  |                                       |                                 |                |                                          |                                     |                  |                                                        |                            |                               |
|-------------------------------------------------------------------|-----------------|--------------------------------------------------------------------|--|---------------------------------------|---------------------------------|----------------|------------------------------------------|-------------------------------------|------------------|--------------------------------------------------------|----------------------------|-------------------------------|
| Location                                                          |                 | ↓ Location ↓                                                       |  | <input type="checkbox"/> Comp         | Collection (comp begin or grab) |                | <input checked="" type="checkbox"/> Grab | Date <u>7/17/18</u>                 | Time <u>1035</u> | Eastern                                                | Composite end              | Bottle Group(s)<br>(See pg 2) |
| Field ID                                                          | WIN ID/Field ID |                                                                    |  | Matrix (type, e.g., Salt, Fresh, etc) |                                 | Diss. Oxygen   |                                          | Date                                |                  | Time                                                   | Date                       |                               |
| WIN/STORET #                                                      | <u>34879</u>    | <u>Wakulla River at CR 365</u>                                     |  | Temp (C) <u>21.5</u>                  |                                 | pH <u>7.70</u> |                                          | Sample Depth <u>0.3</u>             |                  | <input checked="" type="checkbox"/> mg/L               | Total Res. Chlorine (mg/L) | A, B                          |
| Latitude <input type="checkbox"/> dd <input type="checkbox"/> dms |                 | Longitude <input type="checkbox"/> dd <input type="checkbox"/> dms |  | Salinity (ppt) <u>0.02</u>            |                                 | Comments       |                                          | Sp. Conductance (umho/cm) <u>3K</u> |                  |                                                        |                            |                               |
| Location                                                          |                 |                                                                    |  | <input type="checkbox"/> Comp         | Collection (comp begin or grab) |                | <input type="checkbox"/> Grab            | Date                                | Time             | Eastern                                                | Composite end              | Bottle Group(s)               |
| Field ID                                                          |                 |                                                                    |  | Matrix (type, e.g., Salt, Fresh, etc) |                                 | Diss. Oxygen   |                                          | Date                                |                  | Time                                                   | Date                       |                               |
| WIN/STORET #                                                      |                 |                                                                    |  | Temp (C)                              |                                 | pH             |                                          | Sample Depth                        |                  | <input type="checkbox"/> ft <input type="checkbox"/> m | 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                                                          |                 |                                                                    |  | <input type="checkbox"/> Comp         | Collection (comp begin or grab) |                | <input type="checkbox"/> Grab            | Date                                | Time             | Eastern                                                | Composite end              | Bottle Group(s)               |
| Field ID                                                          |                 |                                                                    |  | Matrix (type, e.g., Salt, Fresh, etc) |                                 | Diss. Oxygen   |                                          | Date                                |                  | Time                                                   | Date                       |                               |
| WIN/STORET #                                                      |                 |                                                                    |  | Temp (C)                              |                                 | pH             |                                          | Sample Depth                        |                  | <input type="checkbox"/> ft <input type="checkbox"/> m | 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                                                          |                 |                                                                    |  | <input type="checkbox"/> Comp         | Collection (comp begin or grab) |                | <input type="checkbox"/> Grab            | Date                                | Time             | Eastern                                                | Composite end              | Bottle Group(s)               |
| Field ID                                                          |                 |                                                                    |  | Matrix (type, e.g., Salt, Fresh, etc) |                                 | Diss. Oxygen   |                                          | Date                                |                  | Time                                                   | Date                       |                               |
| WIN/STORET #                                                      |                 |                                                                    |  | Temp (C)                              |                                 | pH             |                                          | Sample Depth                        |                  | <input type="checkbox"/> ft <input type="checkbox"/> m | 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: <u>JB, CG</u> | Date/Time: <u>7/18/18: 818</u> | Shipping Method: <u>HD</u> | Number of Coolers Shipped: <u>1</u> | Received By: <u>[Signature]</u> | Date/Time: <u>7-18-18 / 9:30</u> |
|--------------------------------|--------------------------------|----------------------------|-------------------------------------|---------------------------------|----------------------------------|

9:30  
9A

|          |                                                                                    |                |                 |               |               |                                     |   |
|----------|------------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type:                                                                       | P-1L           | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | BP-1L          | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | CHLSUITE-W                                                                         |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | P-250ML-WO-THI | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ECOLI-18QT                                                                         |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | BG-500ML       | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | W-E8321-DI<br>W-E8321-MS                                                           |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | P-500ML        | # of Bottles: 2 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 1 |
|          | W-ICP<br>W-ICPMS                                                                   |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                       | P-500ML        | # of Bottles: 2 | 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: 2 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab | 1 |
|          | W-PO4-F                                                                            |                |                 |               |               |                                     |   |
| Group: B | Bottle Type:                                                                       | PT-50ML        | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALGAL_ID                                                                           |                |                 |               |               |                                     |   |
| Group: B | Bottle Type:                                                                       | PJ-2L          | # of Bottles: 4 | Preservative: | Formalin      | Enter Number of Bottles Sent to Lab |   |
|          | MI-FW-QLDC                                                                         |                |                 |               |               |                                     |   |

Date of Request: 11-JUN-2018  
 Created By: MUSSON\_C On: 11-JUN-2018  
 Modified By: SWANSON\_C On: 26-JUN-2018  
 Customer: WAS-SECT  
 Project: BMAP  
 Division: Division of Environmental Assessment and Restoration  
 District:  
 Sampling Event: Wakulla BMAP

**Send Coolers To:**

Phone: 850-245-8453  
 2600 Blair Stone Rd  
 Tallahassee, FL 32399  
 Attn: Curtis Musson

**Send Final Report To:**

2600 Blair Stone Rd  
 Tallahassee, FL 32399  
 Attn: Curtis Musson

Program Module Number:  
 Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 26-JUN-2018  
 Biology Request Reviewed By: SWANSON\_C On: 26-JUN-2018  
 Sampling Kit Required: YES Ship on: 12-JUL-2018  
 Sampling Kit Shipped: YES On: 09-JUL-2018  
 Sampling Kit Packed By: GREENWOO\_J  
 Preservatives Needed: YES  
 Date to Receive Samples: 17-JUL-2018  
 Received By: REAVES\_S On: 17-JUL-2018

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

Comments: Group A: Nutrients, Metals, E. coli, Tracers  
 Group B: SCI, Algal ID

- 1 - case of sulfuric acid
- 1 - case of nitric acid
- 2 - sets of sulfuric acid labels
- 2 - sets of nitric acid labels

Adding extra bottles to E8321 test for QC

**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 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: 2 | Preserved With: ICE                                                                                          |
| CHLSUITE-W                  | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 Quanti-Tray) Escherichia coli by Colliert 18 Quanti-Tray method - non-chlorinated water systems     |
| Bottle Type: BG-500ML       | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| W-E8321-DI                  | Template:            | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                      |
| W-E8321-MS                  | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                      |
| Bottle Type: P-500ML        | Number of Bottles: 2 | Preserved With: HNO3                                                                                         |

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| Calcium              |                      |                                                                                                                                                |
| Chromium             |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| Nickel               |                      |                                                                                                                                                |
| Potassium            |                      |                                                                                                                                                |
| Sodium               |                      |                                                                                                                                                |
| Zinc                 |                      |                                                                                                                                                |
| W-ICPMS              | Template:            | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Arsenic              |                      |                                                                                                                                                |
| Cadmium              |                      |                                                                                                                                                |
| Copper               |                      |                                                                                                                                                |
| Lead                 |                      |                                                                                                                                                |
| Silver               |                      |                                                                                                                                                |

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| 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 B (Biological) With 2 Samples:**

|                      |                      |                                                                        |
|----------------------|----------------------|------------------------------------------------------------------------|
| Bottle Type: PT-50ML | Number of Bottles: 2 | Preserved With: ICE                                                    |
| ALGAL_ID             | Template: DEFAULT    | (SOP-AB05) Qualitative assessment of algal taxa present without counts |
| Bottle Type: PJ-2L   | Number of Bottles: 4 | Preserved With: Formalin                                               |
| MI-FW-QLDC           | Template: DEFAULT    | (SOP-IZ06) No. Taxa of FW macroinverts, qual samp, 20 dipnets.         |

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