

**From:** [Lurding, Kathleen](#)  
**To:** [Linger, Michael](#); [Ayala, Natalie](#); [Cobb, Devan R.](#)  
**Cc:** [Watts, John](#); [Bowden, Magan](#)  
**Subject:** RE: STORET/WIN ID Mistake  
**Date:** Thursday, January 18, 2018 9:40:17 AM

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OK – thanks Mike – I think we got our emails crossed but this will work.

I noticed the error in the request but could find the event based on the sample date. Magan – it's CEN-DIST-2018-01-10-01.

Thanks all –

Kathy

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**From:** Linger, Michael  
**Sent:** Thursday, January 18, 2018 9:18 AM  
**To:** Lurding, Kathleen <[Kathleen.Lurding@dep.state.fl.us](mailto:Kathleen.Lurding@dep.state.fl.us)>; Ayala, Natalie <[Natalie.Ayala@dep.state.fl.us](mailto:Natalie.Ayala@dep.state.fl.us)>; Cobb, Devan R. <[Devan.R.Cobb@dep.state.fl.us](mailto:Devan.R.Cobb@dep.state.fl.us)>  
**Cc:** Watts, John <[John.Watts@dep.state.fl.us](mailto:John.Watts@dep.state.fl.us)>; Bowden, Magan <[Magan.Bowden@dep.state.fl.us](mailto:Magan.Bowden@dep.state.fl.us)>  
**Subject:** RE: STORET/WIN ID Mistake

Kathy,

Attached are the amended submittal forms. Also note that the wrong RQ was on some parts of the original submittal forms. The correct RQ is RQ-2018-01-01-29, not RQ-2018-01-01-28

Thank you for all the help,

Mike Linger

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**From:** Lurding, Kathleen  
**Sent:** Wednesday, January 17, 2018 4:56 PM  
**To:** Ayala, Natalie <[Natalie.Ayala@dep.state.fl.us](mailto:Natalie.Ayala@dep.state.fl.us)>; Cobb, Devan R. <[Devan.R.Cobb@dep.state.fl.us](mailto:Devan.R.Cobb@dep.state.fl.us)>  
**Cc:** Watts, John <[John.Watts@dep.state.fl.us](mailto:John.Watts@dep.state.fl.us)>; Bowden, Magan <[Magan.Bowden@dep.state.fl.us](mailto:Magan.Bowden@dep.state.fl.us)>; Linger, Michael <[Michael.Linger@dep.state.fl.us](mailto:Michael.Linger@dep.state.fl.us)>  
**Subject:** RE: STORET/WIN ID Mistake

Great – that'll work.

Kathy

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**From:** Ayala, Natalie  
**Sent:** Wednesday, January 17, 2018 4:42 PM  
**To:** Lurding, Kathleen <[Kathleen.Lurding@dep.state.fl.us](mailto:Kathleen.Lurding@dep.state.fl.us)>; Cobb, Devan R. <[Devan.R.Cobb@dep.state.fl.us](mailto:Devan.R.Cobb@dep.state.fl.us)>

**Cc:** Watts, John <[John.Watts@dep.state.fl.us](mailto:John.Watts@dep.state.fl.us)>; Bowden, Magan <[Magan.Bowden@dep.state.fl.us](mailto:Magan.Bowden@dep.state.fl.us)>; Linger, Michael <[Michael.Linger@dep.state.fl.us](mailto:Michael.Linger@dep.state.fl.us)>  
**Subject:** Re: STORET/WIN ID Mistake

Thanks, Kathy. I'm working from home today so I don't have access to the submittal form. I'm copying some staff that may still be in the office. If they're unable to, can I get that amended form to you first thing in the morning?

Thanks,

Natalie

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**From:** Lurding, Kathleen  
**Sent:** Wednesday, January 17, 2018 4:29:49 PM  
**To:** Ayala, Natalie; Cobb, Devan R.  
**Cc:** Watts, John; Bowden, Magan  
**Subject:** RE: STORET/WIN ID Mistake

Natalie – you did catch it in time so we have no problem making this change. Will you send us a corrected submittal form please?

Magan – When we get an updated submittal form would you please replace the original one with the correct one and make this change? If you have already authorized login, this change will require you to do it again.

Thanks for sending your request so promptly.

Kathy

*KM Lurding*  
Administrator, Scientific Support Services Program  
FDEP Laboratories  
(850) 245-8076

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**From:** Ayala, Natalie  
**Sent:** Wednesday, January 17, 2018 4:23 PM  
**To:** Cobb, Devan R. <[Devan.R.Cobb@dep.state.fl.us](mailto:Devan.R.Cobb@dep.state.fl.us)>; Lurding, Kathleen <[Kathleen.Lurding@dep.state.fl.us](mailto:Kathleen.Lurding@dep.state.fl.us)>  
**Cc:** Watts, John <[John.Watts@dep.state.fl.us](mailto:John.Watts@dep.state.fl.us)>  
**Subject:** Fw: STORET/WIN ID Mistake

Hello,

I know you avoid editing stations for lab results that have already been reported so I'm hoping we caught this one early enough that the station can be corrected in LIMS before its reported.

- RQ 2018-01-01-28 was collected on 01/09/2018 with samples G1CE0047 and G1CE0041.
- G1CE0047 was incorrectly labeled. Both submittal forms (the submittal form for the Central Lab and the contract lab for the E. coli analysis) have the wrong station ID (G1CE0047). The correct station ID for the site collected should be G1CE0042.

Is it possible to amend this in LIMS on your end?

I appreciate your help and sorry about the mix up. We're taking steps to avoid mistakes like these in the future.

Thanks,  
Natalie Ayala

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**From:** Musson, Curtis  
**Sent:** Wednesday, January 17, 2018 12:46 PM  
**To:** Ayala, Natalie  
**Subject:** RE: STORET/WIN ID Mistake

Natalie,

It's unfortunate it happened again but I am happy you have checks in place and caught it. Will you ask Kathy Lurding, and Devan Cobb to update the incorrect info in LIMS?

Thank you!

Curtis

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**From:** Ayala, Natalie  
**Sent:** Tuesday, January 16, 2018 3:14 PM  
**To:** Musson, Curtis <[Curtis.Musson@dep.state.fl.us](mailto:Curtis.Musson@dep.state.fl.us)>  
**Subject:** STORET/WIN ID Mistake

Curtis,

Despite correcting old field sheets and ensuring that there was no reference to this erroneous WIN ID somehow Lake Felter (2868B) samples were submitted to the lab under the wrong

WIN ID (again). I've corrected this in the LIMS DMT and the latest field sheets and will grill the samplers about what they're referencing when filling out station information.

Thank you,

Natalie Ayala

Environmental Specialist III

Division of Environmental Assessment and Restoration

3319 Maguire Blvd Suite 232

Orlando, FL 32803

Office: 407-897-4178

Tilden x4 / Mirror / Felter

## Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: CEN-DIST

Requester: Michael Linger

Field Report Prepared By: Mike Linger

Project ID: SMP

Collected By: Mike Linger / Lawrence Drannan

Sampling Agency: FDEP CE-ROC

|                                                                         |  |                                                                           |                                                          |                                                                                 |                                                                                 |                                                                            |                               |                                    |
|-------------------------------------------------------------------------|--|---------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------|------------------------------------|
| Location<br>Luke Felter @ Center                                        |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 1/9/18 Time 1144 |                                                                                 | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Composite end<br>Date Time                                                 |                               | Bottle Group(s)<br>(See pg 2)<br>B |
| Field ID<br>G1CE0042                                                    |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh                            |                                                          | Diss. Oxygen<br>9.47                                                            |                                                                                 | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L) |                                    |
| STORET #<br>G1CE0042                                                    |  | Temp (C)<br>13.25                                                         | pH<br>6.85                                               | Sample Depth<br>0.3                                                             | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m            | Sp. Conductance<br>(umho/cm)<br>127                                        |                               |                                    |
| Latitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Longitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms  |                                                          | Salinity (ppt)<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms   | Comments<br>CD-FLR-ECQ sent to contract lab                                     |                                                                            |                               |                                    |
| Location<br>Mirror Lake @ Center of North Lake                          |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 1/9/18 Time 1241 |                                                                                 | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Composite end<br>Date Time                                                 |                               | Bottle Group(s)<br>B               |
| Field ID<br>G1CE0041                                                    |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh                            |                                                          | Diss. Oxygen<br>9.47                                                            |                                                                                 | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L) |                                    |
| STORET #<br>G1CE0041                                                    |  | Temp (C)<br>15.52                                                         | pH<br>7.34                                               | Sample Depth<br>0.3                                                             | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m            | Sp. Conductance<br>(umho/cm)<br>154                                        |                               |                                    |
| Latitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Longitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms  |                                                          | Salinity (ppt)<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms   | Comments<br>CD-FLR-ECQ sent to contract lab                                     |                                                                            |                               |                                    |
| Location                                                                |  | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date Time             |                                                                                 | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central            | Composite end<br>Date Time                                                 |                               | Bottle Group(s)                    |
| Field ID                                                                |  | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                          | Diss. Oxygen<br><input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat |                                                                                 | Total Res. Chlorine<br>(mg/L)                                              |                               |                                    |
| STORET #                                                                |  | Temp (C)                                                                  | pH                                                       | Sample Depth<br><input type="checkbox"/> ft<br><input type="checkbox"/> m       | Sp. Conductance<br>(umho/cm)                                                    |                                                                            |                               |                                    |
| Latitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Longitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms  |                                                          | Salinity (ppt)<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms   | Comments                                                                        |                                                                            |                               |                                    |
| Location                                                                |  | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date Time             |                                                                                 | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central            | Composite end<br>Date Time                                                 |                               | Bottle Group(s)                    |
| Field ID                                                                |  | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                          | Diss. Oxygen<br><input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat |                                                                                 | Total Res. Chlorine<br>(mg/L)                                              |                               |                                    |
| STORET #                                                                |  | Temp (C)                                                                  | pH                                                       | Sample Depth<br><input type="checkbox"/> ft<br><input type="checkbox"/> m       | Sp. Conductance<br>(umho/cm)                                                    |                                                                            |                               |                                    |
| Latitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms |  | Longitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms  |                                                          | Salinity (ppt)<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms   | Comments                                                                        |                                                                            |                               |                                    |

|                         |                          |                          |                                 |              |           |
|-------------------------|--------------------------|--------------------------|---------------------------------|--------------|-----------|
| Relinquished By:<br>MKL | Date/Time<br>1/9/18 1600 | Shipping Method<br>FedEx | Number of Coolers Shipped:<br>1 | Received By: | Date/Time |
|-------------------------|--------------------------|--------------------------|---------------------------------|--------------|-----------|

★ Amended submittal form  
MKL

|          |              |                |                 |               |               |                                     |   |
|----------|--------------|----------------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type: | P-1L           | # of Bottles: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 0 |
|          | ALKALINITY   |                |                 |               |               |                                     |   |
|          | TURBIDITY    |                |                 |               |               |                                     |   |
|          | W-CL-IC      |                |                 |               |               |                                     |   |
|          | W-COLOR      |                |                 |               |               |                                     |   |
|          | W-F          |                |                 |               |               |                                     |   |
|          | W-SO4-IC     |                |                 |               |               |                                     |   |
|          | W-TDS        |                |                 |               |               |                                     |   |
|          | W-TSS        |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-250ML-WI-THI | # of Bottles: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 0 |
|          | CD-FLR-ECQ   |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | BP-1L          | # of Bottles: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 0 |
|          | CHLSUITE-W   |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML        | # of Bottles: 4 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 0 |
|          | W-ICP        |                |                 |               |               |                                     |   |
|          | W-ICPMS      |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML        | # of Bottles: 4 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 0 |
|          | W-NH3        |                |                 |               |               |                                     |   |
|          | W-NO2NO3     |                |                 |               |               |                                     |   |
|          | W-S-A-TP     |                |                 |               |               |                                     |   |
|          | W-TKN        |                |                 |               |               |                                     |   |
|          | W-TOC        |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-125ML        | # of Bottles: 4 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab | 0 |
|          | W-PO4-F      |                |                 |               |               |                                     |   |
| Group: B | Bottle Type: | P-1L           | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | ALKALINITY   |                |                 |               |               |                                     |   |
|          | TURBIDITY    |                |                 |               |               |                                     |   |
|          | W-CL-IC      |                |                 |               |               |                                     |   |
|          | W-COLOR      |                |                 |               |               |                                     |   |
|          | W-F          |                |                 |               |               |                                     |   |
|          | W-SO4-IC     |                |                 |               |               |                                     |   |
|          | W-TDS        |                |                 |               |               |                                     |   |
|          | W-TSS        |                |                 |               |               |                                     |   |

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|          |                             |                 |                   |                                     |
|----------|-----------------------------|-----------------|-------------------|-------------------------------------|
| Group: B | Bottle Type: P-250ML-WI-THI | # of Bottles: 2 | Preservative: ICE | Enter Number of Bottles Sent to Lab |
|          | CD-FLR-ECQ                  |                 |                   | <u>2 sent to contract lab</u>       |

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|          |                    |                 |                   |                                     |
|----------|--------------------|-----------------|-------------------|-------------------------------------|
| Group: B | Bottle Type: BP-1L | # of Bottles: 2 | Preservative: ICE | Enter Number of Bottles Sent to Lab |
|          | CHLSUITE-W         |                 |                   | <u>2</u>                            |

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|          |                      |                 |                             |                                     |
|----------|----------------------|-----------------|-----------------------------|-------------------------------------|
| Group: B | Bottle Type: P-500ML | # of Bottles: 2 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
|          | W-NH3                |                 |                             | <u>2</u>                            |
|          | W-NO2NO3             |                 |                             |                                     |
|          | W-S-A-TP             |                 |                             |                                     |
|          | W-TKN                |                 |                             |                                     |
|          | W-TOC                |                 |                             |                                     |

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|          |                      |                 |                          |                                     |
|----------|----------------------|-----------------|--------------------------|-------------------------------------|
| Group: B | Bottle Type: P-125ML | # of Bottles: 2 | Preservative: FILTER-ICE | Enter Number of Bottles Sent to Lab |
|          | W-PO4-F              |                 |                          | <u>2</u>                            |

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# CONTRACT LAB - CHAIN OF CUSTODY

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

Project Name: SMP

Project Number: RQ- 2018-01-01-29

Site Location: Mirror / Felter

Contract/PO # Flowers Lab - B16975

Sampler Names: Mike Linger / Mike Dorman Signature: Mike Linger

| FIELD ID | Lab No.<br>(Lab Use Only) | Date   | Time Sampled | No. of Containers | Grab | Composite | Preservative |     |      |      | Matrix      |            |                |               | Analyze For:           |                   |                     |
|----------|---------------------------|--------|--------------|-------------------|------|-----------|--------------|-----|------|------|-------------|------------|----------------|---------------|------------------------|-------------------|---------------------|
|          |                           |        |              |                   |      |           | ICE          | HCL | HNO3 | NONE | Groundwater | Wastewater | Drinking Water | Surface Water | Escherichia Coli (ECQ) | Enterococci (ENQ) | Fecal Coliform (FC) |
| G1CE0042 |                           | 1/9/18 | 1144         | 1                 | X    |           | X            |     |      |      |             |            |                | X             | X                      |                   |                     |
| G1CE0041 |                           | 1/9/18 | 1241         | 1                 | X    |           | X            |     |      |      |             |            |                | X             | X                      |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |

## Special Instructions:

Samples are ambient water and not suspected to contain chlorine

| Relinquished by:   | Date   | Time | Received by: | Date | Time | Comments                  |
|--------------------|--------|------|--------------|------|------|---------------------------|
| <u>Mike Linger</u> | 1/9/18 |      |              |      |      | Temp Upon Receipt :       |
| Relinquished by:   | Date   | Time | Received by: | Date | Time | Sample Containers Intact? |
|                    |        |      |              |      |      | Y N                       |

\* Amended submitted form - MFL

# Log-in Checklist

RQ-2018-01-01-29

Shipping Method: FEDEX

Date/Time of Receipt: 01/10/18 @ 10:21 am

| Cooler ID | Cooler Temperature* | No. Sample Containers in Cooler | Evidence Tape |    |          |    | Tracking # (fill out only if waybill copy is damaged) |
|-----------|---------------------|---------------------------------|---------------|----|----------|----|-------------------------------------------------------|
|           |                     |                                 | Present?      |    | *Intact? |    |                                                       |
|           |                     |                                 | Yes           | No | Yes      | No |                                                       |
| Red       | 1.9°C               | 8                               |               | ✓  |          |    | 811595512489                                          |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |

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

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

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

## CONTAINER CHECK

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

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

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

## CHLORINE CHECK (Blue dot on container)

| Check the Box marked "Yes" or "No" for the Presence of Chlorine. If Cl detected, an NCR is required. |     |    |               |     |    |
|------------------------------------------------------------------------------------------------------|-----|----|---------------|-----|----|
| Analysis                                                                                             | Yes | No | Analysis      | Yes | No |
| W-1,4 DIOX                                                                                           |     |    | W-PC-AA-SF    |     |    |
| W-AHERB-AA (-AHB-AA-R)                                                                               |     |    | W-PCL-SQ (-R) |     |    |
| W-BNA (-625, -R)                                                                                     |     |    | W-PDQUAT      |     |    |
| W-CARB-AA (-CAB-AA-R)                                                                                |     |    | W-PESTNP-R    |     |    |
| W-ENDO-AA                                                                                            |     |    | W-PSCL-TQ     |     |    |
| W-GLYPH                                                                                              |     |    | W-PSNP-TQ     |     |    |
| W-NP-AA-SF                                                                                           |     |    | W-PST-CL-R    |     |    |
| W-PAH (-R)                                                                                           |     |    | W-TR-TQ       |     |    |
| W-PCB-R                                                                                              |     |    | W-CT-Cl-R     |     |    |

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

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

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

Coolers Unpacked/Checked by: Tyler R. Date: 01/10/18 NCRs (Y/N)? N

Event ID: Tilden x4 / Mirror / Felter NCR #

CEN-DIST-2018-01-10-01 (SMP)

Date Received: 10-JAN-2018 10:21

## Log-in Checklist

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

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

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

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

### Bottles Not Intact

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

### Samples with Insufficient Volume for Analyses

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

## ENCORE SAMPLES

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

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

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

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

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

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

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

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

**Additional Comments:**

Tilden x4 / Mirror / Felter

## Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: CEN-DIST

Requester: Michael Linger

Field Report Prepared By:

Mike Linger

Project ID: SMP

Collected By: Mike Linger / Mike Drennan

Sampling Agency:

FDEP CE-ROC

|          |                                            |          |          |          |                                      |          |                                                             |           |                                                             |                |                                                             |          |                                   |
|----------|--------------------------------------------|----------|----------|----------|--------------------------------------|----------|-------------------------------------------------------------|-----------|-------------------------------------------------------------|----------------|-------------------------------------------------------------|----------|-----------------------------------|
| Location | Lake Felter @ Center (2868B)               | Field ID | G1CE0047 | STORET   | Date: 01/09/2018<br>RQ-2018-01-01-28 | Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Comments | -CD-FELR-ECQ sent to contract lab |
| Location | Mirror Lake @ Center of North Lobe (2868A) | Field ID | G1CE0041 | STORET   | Date: 01/09/2018<br>RQ-2018-01-01-28 | Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Comments | CD-FELR-ECQ sent to contract lab  |
| Location |                                            | Field ID |          | STORET # |                                      | Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Comments |                                   |
| Location |                                            | Field ID |          | STORET # |                                      | Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Comments |                                   |

|                  |             |                 |                            |              |                 |
|------------------|-------------|-----------------|----------------------------|--------------|-----------------|
| Relinquished By: | Date/Time   | Shipping Method | Number of Coolers Shipped: | Received By: | Date/Time       |
| MKL              | 1/9/18 1600 | FedEx           | 1                          | Tyler R.     | 1/10/18 @ 10:21 |

|          |              |                |                 |               |               |                                     |   |
|----------|--------------|----------------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type: | P-1L           | # of Bottles: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 0 |
|          | ALKALINITY   |                |                 |               |               |                                     |   |
|          | TURBIDITY    |                |                 |               |               |                                     |   |
|          | W-CL-IC      |                |                 |               |               |                                     |   |
|          | W-COLOR      |                |                 |               |               |                                     |   |
|          | W-F          |                |                 |               |               |                                     |   |
|          | W-SO4-IC     |                |                 |               |               |                                     |   |
|          | W-TDS        |                |                 |               |               |                                     |   |
|          | W-TSS        |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-250ML-WI-THI | # of Bottles: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 0 |
|          | CD-FLR-ECQ   |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | BP-1L          | # of Bottles: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 0 |
|          | CHLSUITE-W   |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML        | # of Bottles: 4 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 0 |
|          | W-ICP        |                |                 |               |               |                                     |   |
|          | W-ICPMS      |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML        | # of Bottles: 4 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 0 |
|          | W-NH3        |                |                 |               |               |                                     |   |
|          | W-NO2NO3     |                |                 |               |               |                                     |   |
|          | W-S-A-TP     |                |                 |               |               |                                     |   |
|          | W-TKN        |                |                 |               |               |                                     |   |
|          | W-TOC        |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-125ML        | # of Bottles: 4 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab | 0 |
|          | W-PO4-F      |                |                 |               |               |                                     |   |
| Group: B | Bottle Type: | P-1L           | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | ALKALINITY   |                |                 |               |               |                                     |   |
|          | TURBIDITY    |                |                 |               |               |                                     |   |
|          | W-CL-IC      |                |                 |               |               |                                     |   |
|          | W-COLOR      |                |                 |               |               |                                     |   |
|          | W-F          |                |                 |               |               |                                     |   |
|          | W-SO4-IC     |                |                 |               |               |                                     |   |
|          | W-TDS        |                |                 |               |               |                                     |   |
|          | W-TSS        |                |                 |               |               |                                     |   |

|          |                                                                         |                 |                             |                                     |                        |
|----------|-------------------------------------------------------------------------|-----------------|-----------------------------|-------------------------------------|------------------------|
| Group: B | Bottle Type: P-250ML-WI-THI<br>CD-FLR-ECQ                               | # of Bottles: 2 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 2 sent to contract lab |
| Group: B | Bottle Type: BP-1L<br>CHLSUITE-W                                        | # of Bottles: 2 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 2                      |
| Group: B | Bottle Type: P-500ML<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | # of Bottles: 2 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 2                      |
| Group: B | Bottle Type: P-125ML<br>W-PO4-F                                         | # of Bottles: 2 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab | 2                      |



# CONTRACT LAB - CHAIN OF CUSTODY

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

Project Name: SMP  
Project Number: RQ-2018-01-01-28  
Site Location: Mirror / Filter

Contract/PO # Flowers Lab - B16975

Sampler Names: Mike Linger / Mike Danner

Signature: *[Signature]*

| FIELD ID | Lab No.<br>(Lab Use Only) | Date   | Time Sampled | No. of Containers | Grab | Composite | Preservative |     |      |      | Matrix      |            |                |               | Analyze For:           |                   |                     |
|----------|---------------------------|--------|--------------|-------------------|------|-----------|--------------|-----|------|------|-------------|------------|----------------|---------------|------------------------|-------------------|---------------------|
|          |                           |        |              |                   |      |           | ICE          | HCL | HNO3 | NONE | Groundwater | Wastewater | Drinking Water | Surface Water | Escherichia Coli (ECQ) | Enterococci (ENQ) | Fecal Coliform (FC) |
| G1CE0047 |                           | 1/9/18 | 1144         | 1                 | X    |           | X            |     |      |      |             |            |                | X             | X                      |                   |                     |
| G1CE0041 |                           | 1/9/18 | 1241         | ✓                 | X    |           | X            |     |      |      |             |            |                | X             | X                      |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |
|          |                           |        |              |                   |      |           |              |     |      |      |             |            |                |               |                        |                   |                     |

## Special Instructions:

Samples are ambient water and not suspected to contain chlorine

|                    |        |      |                    |          |       |                           |
|--------------------|--------|------|--------------------|----------|-------|---------------------------|
| Relinquished by:   | Date   | Time | Received by:       | Date     | Time  | Comments                  |
| <i>[Signature]</i> | 1/9/18 | 1344 | <i>[Signature]</i> | 12/16/18 | 13:46 | Temp Upon Receipt:        |
| Relinquished by:   | Date   | Time | Received by:       | Date     | Time  | Sample Containers Intact? |
|                    |        |      |                    |          |       | Y N                       |

Date of Request: 12-DEC-2017  
 Created By: LINGER\_M On: 12-DEC-2017  
 Modified By: SWANSON\_C On: 14-DEC-2017  
 Customer: CEN-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Central District  
 Sampling Event: Tilden x4 / Mirror / Felter

**Send Coolers To:**

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

Program Module Number: 1306  
 Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 13-DEC-2017  
 Biology Request Reviewed By: SWANSON\_C On: 14-DEC-2017  
 Sampling Kit Required: YES Ship on: 20-DEC-2017  
 Sampling Kit Shipped: YES On: 21-DEC-2017  
 Sampling Kit Packed By: REAVES\_S  
 Preservatives Needed: NO  
 Date to Receive Samples: 01-JAN-2018  
 Received By:

**Send Final Report To:**

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

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

Comments: A: Tilden  
 B: Mirror / Felter

**Bottle Group A (Water) With 4 Samples:**

|                       |                      |                                                                                                                                                |
|-----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L     | Number of Bottles: 4 | Preserved With: ICE                                                                                                                            |
| ALKALINITY            | Template: DEFAULT    | (SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                                                                       |
| TURBIDITY             | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                                             |
| W-CL-IC               | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                                                              |
| W-COLOR               | Template: DEFAULT    | (SM 2120 B) True Color measured at 450 nm                                                                                                      |
| Color (true)          |                      |                                                                                                                                                |
| W-F                   | Template: DEFAULT    | (SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                           |
| W-SO <sub>4</sub> -IC | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                                                               |
| W-TDS                 | Template: DEFAULT    | (SM 2540 C-97) Total Dissolved Solids in aqueous matrices                                                                                      |
| W-TSS                 | Template: DEFAULT    | (SM 2540 D-97) Total Suspended Solids in aqueous matrices                                                                                      |
| Bottle Type:          | Number of Bottles: 4 | Preserved With: ICE                                                                                                                            |
| CD-FLR-ECQ            | Template: DEFAULT    | (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by FlowersOverflow Laboratory for Central District                    |
| Bottle Type: BP-1L    | Number of Bottles: 4 | 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: 4 | Preserved With: HNO <sub>3</sub>                                                                                                               |
| W-ICP                 | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium               |                      |                                                                                                                                                |
| Chromium              |                      |                                                                                                                                                |
| Iron                  |                      |                                                                                                                                                |
| Magnesium             |                      |                                                                                                                                                |
| Nickel                |                      |                                                                                                                                                |
| Potassium             |                      |                                                                                                                                                |
| Sodium                |                      |                                                                                                                                                |

**Bottle Group A (Water) With 4 Samples:**

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 4 | 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 |
| 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: 4 | 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: 4 | Preserved With: FILTER-ICE                                                                                                                     |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                                                       |

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

|                      |                      |                                                                                                                             |
|----------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 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 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                                                                   |
| Bottle Type:         | Number of Bottles: 2 | Preserved With: ICE                                                                                                         |
| CD-FLR-ECQ           | Template: DEFAULT    | (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by FlowersOverflow Laboratory for Central District |
| 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                |