

Lake Arrowhead, Lake Kanturk, Petty Gulf Lake and  
Alford Arm Tributary

## Central Laboratory Submittal Form

last revised Nov 10, 2015

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By: James Albright

Project ID: SMP

Collected By: Benjamin RalysSampling Agency: FDEP - WAS

|                                                                    |                                                                        |                                                                           |                                                                         |                               |                                                                                   |                                         |  |                                           |
|--------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------|--|-------------------------------------------|
| Location<br>Lake Arrowhead @ boat dock @ Turtle CK Ln near Outlet  |                                                                        | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <u>2-9-16</u> Time <u>9:30</u>  |                               | <u>Eastern</u><br>Central                                                         | Composite end<br>Date _____ Time _____  |  | Bottle<br>Group(s)<br>(See pg 2)<br><br>A |
| Field ID<br><u>G1WA0004</u>                                        |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)<br><u>Fresh</u>                     |                                                                         | Diss. Oxygen<br><u>9.87</u>   | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat        | Total Res. Chlorine<br>(mg/L)           |  |                                           |
| STORET #<br><u>G1WA0004</u>                                        |                                                                        | Temp<br>(C) <u>11.71</u>                                                  | pH<br><u>6.54</u>                                                       | Sample<br>Depth <u>0.5</u>    | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m              | Sp. Conductance<br>(umho/cm) <u>788</u> |  |                                           |
| Latitude<br><u>30.568517</u>                                       | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude<br><u>84.568517</u>                                             | <input type="checkbox"/> dd<br><input type="checkbox"/> dms             | Salinity<br>(ppt) <u>0.39</u> | Comments<br><u>Very green water (suspended algae)</u>                             |                                         |  |                                           |
| Location<br>Lake Petty Gulf @ Deer Lake Rd East                    |                                                                        | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <u>2-9-16</u> Time <u>10:15</u> |                               | <u>Eastern</u><br>Central                                                         | Composite end<br>Date _____ Time _____  |  | Bottle<br>Group(s)<br><br>A               |
| Field ID<br><u>G1WA0016</u>                                        |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)<br><u>Fresh</u>                     |                                                                         | Diss. Oxygen<br><u>8.45</u>   | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat        | Total Res. Chlorine<br>(mg/L)           |  |                                           |
| STORET #<br><u>G1WA0016</u>                                        |                                                                        | Temp<br>(C) <u>10.65</u>                                                  | pH<br><u>6.74</u>                                                       | Sample<br>Depth <u>0.5</u>    | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m              | Sp. Conductance<br>(umho/cm) <u>654</u> |  |                                           |
| Latitude<br><u>30° 35.238' N</u>                                   | <input type="checkbox"/> dd<br><input checked="" type="checkbox"/> dms | Longitude<br><u>84° 13.394' W</u>                                         | <input type="checkbox"/> dd<br><input checked="" type="checkbox"/> dms  | Salinity<br>(ppt) <u>0.32</u> | Comments<br><u>Leeward end of long fetch w/ strong winds 15 gusting to 20+ kt</u> |                                         |  |                                           |
| Location<br>Killdeer Chain of Lakes Outlet @ Vidalia Rd by Hill Ct |                                                                        | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <u>2-9-16</u> Time <u>11:00</u> |                               | <u>Eastern</u><br>Central                                                         | Composite end<br>Date _____ Time _____  |  | Bottle<br>Group(s)<br><br>A               |
| Field ID<br><u>G1WA0015</u>                                        |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)<br><u>Fresh</u>                     |                                                                         | Diss. Oxygen<br><u>9.39</u>   | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat        | Total Res. Chlorine<br>(mg/L)           |  |                                           |
| STORET #<br><u>G1WA0015</u>                                        |                                                                        | Temp<br>(C) <u>9.44</u>                                                   | pH<br><u>6.39</u>                                                       | Sample<br>Depth <u>0.25</u>   | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m              | Sp. Conductance<br>(umho/cm) <u>594</u> |  |                                           |
| Latitude<br><u>30° 32.241' N</u>                                   | <input type="checkbox"/> dd<br><input checked="" type="checkbox"/> dms | Longitude<br><u>84° 13.708' W</u>                                         | <input type="checkbox"/> dd<br><input checked="" type="checkbox"/> dms  | Salinity<br>(ppt) <u>0.29</u> | Comments                                                                          |                                         |  |                                           |
| Location<br>Alford Arm Tributary at Back Lake Rd                   |                                                                        | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <u>2-9-16</u> Time <u>12:15</u> |                               | <u>Eastern</u><br>Central                                                         | Composite end<br>Date _____ Time _____  |  | Bottle<br>Group(s)<br><br>A               |
| Field ID<br><u>G1WA0017</u>                                        |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)<br><u>Fresh</u>                     |                                                                         | Diss. Oxygen<br><u>8.14</u>   | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat        | Total Res. Chlorine<br>(mg/L)           |  |                                           |
| STORET #<br><u>G1WA0017</u>                                        |                                                                        | Temp<br>(C) <u>10.51</u>                                                  | pH<br><u>6.26</u>                                                       | Sample<br>Depth _____         | <input type="checkbox"/> ft<br><input type="checkbox"/> m                         | Sp. Conductance<br>(umho/cm) <u>515</u> |  |                                           |
| Latitude<br><u>30° 27.818' N</u>                                   | <input type="checkbox"/> dd<br><input checked="" type="checkbox"/> dms | Longitude<br><u>84° 10.269' W</u>                                         | <input type="checkbox"/> dd<br><input checked="" type="checkbox"/> dms  | Salinity<br>(ppt) <u>0.23</u> | Comments                                                                          |                                         |  |                                           |

|                                            |                                 |                 |                                    |                                  |                  |           |              |           |
|--------------------------------------------|---------------------------------|-----------------|------------------------------------|----------------------------------|------------------|-----------|--------------|-----------|
| Relinquished By:<br><u>Jan [Signature]</u> | Date/Time<br><u>2-9-16/1:28</u> | Shipping Method | Received By:<br><u>[Signature]</u> | Date/Time<br><u>2-9-16/13:28</u> | Relinquished By: | Date/Time | Received By: | Date/Time |
|--------------------------------------------|---------------------------------|-----------------|------------------------------------|----------------------------------|------------------|-----------|--------------|-----------|

|            |                      |                 |                             |                                              |
|------------|----------------------|-----------------|-----------------------------|----------------------------------------------|
| Group: A   | Bottle Type: P-1L    | # of Bottles: 4 | Preservative: ICE           | Enter Number of Bottles Sent to Lab <u>4</u> |
| ALKALINITY |                      |                 |                             |                                              |
| TURBIDITY  |                      |                 |                             |                                              |
| W-CL-IC    |                      |                 |                             |                                              |
| W-COLOR    |                      |                 |                             |                                              |
| W-F        |                      |                 |                             |                                              |
| W-NO2      |                      |                 |                             |                                              |
| W-TDS      |                      |                 |                             |                                              |
| W-TSS      |                      |                 |                             |                                              |
| Group: A   | Bottle Type: P-1L    | # of Bottles: 4 | Preservative: ICE           | Enter Number of Bottles Sent to Lab <u>4</u> |
| BOD-UNIN   |                      |                 |                             |                                              |
| Group: A   | Bottle Type: BP-1L   | # of Bottles: 4 | Preservative: ICE           | Enter Number of Bottles Sent to Lab <u>4</u> |
| CHL-CORR-W |                      |                 |                             |                                              |
| Group: A   | Bottle Type: P-500ML | # of Bottles: 4 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab <u>4</u> |
| W-NH3      |                      |                 |                             |                                              |
| W-NO2NO3   |                      |                 |                             |                                              |
| W-S-A-TP   |                      |                 |                             |                                              |
| W-TKN      |                      |                 |                             |                                              |
| W-TOC      |                      |                 |                             |                                              |
| Group: A   | Bottle Type: P-125ML | # of Bottles: 4 | Preservative: ICE-FLTR      | Enter Number of Bottles Sent to Lab <u>4</u> |
| W-PO4-F    |                      |                 |                             |                                              |

Date of Request: 08-JAN-2016  
 Created By: RALYS\_B On: 08-JAN-2016  
 Modified By: WATTS\_J On: 12-JAN-2016  
 Customer: WQAP  
 Project: SMP  
 Division:  
 District:

**Send Coolers To:**

Phone: 850-245-8443  
 2600 Blair Stone Rd  
 MS #3560  
 Tallahassee, FL 32399-2400  
 Attn: Benjamin Ralys

Sampling Event: Lake Arrowhead, Lake Kanturk, Petty Gulf Lake and Alford Arm Tributary

**Send Final Report To:**

2600 Blair Stone Rd  
 MS #3560  
 Tallahassee, FL 32399-2400  
 Attn: Katrina Sanders

Program Module Number:

Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 12-JAN-2016  
 Biology Request Reviewed By: SWANSON\_C On: 08-JAN-2016  
 Sampling Kit Required: YES Ship on: 01-FEB-2016  
 Sampling Kit Shipped: YES On: 29-JAN-2016  
 Sampling Kit Packed By: LASHLEY\_C  
 Preservatives Needed: NO  
 Date to Receive Samples: 09-FEB-2016  
 Received By: SHAIK\_A On: 09-FEB-2016

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

Comments:

**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-NO2                             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite in aqueous matrices as mg N/L                                                       |
| 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: P-1L                 | Number of Bottles: 4 | Preserved With: ICE                                                                                              |
| BOD-UNIN                          | Template: DEFAULT    | (SM 5210 B) BOD, NOT nitrogen-inhibited                                                                          |
| Bottle Type: BP-1L                | Number of Bottles: 4 | Preserved With: ICE                                                                                              |
| CHL-CORR-W                        | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a (corrected for phaeophytin) and phaeophytin by spectrophotometry |
| Bottle Type: P-500ML              | Number of Bottles: 4 | Preserved With: ICE And H <sub>2</sub> SO <sub>4</sub>                                                           |
| W-NH <sub>3</sub>                 | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                       |
| W-NO <sub>2</sub> NO <sub>3</sub> | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                               |
| W-S-A-TP                          | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                                              |
| W-TKN                             | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                                                 |
| W-TOC                             | Template: DEFAULT    | (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices                                                   |
| Bottle Type: P-125ML              | Number of Bottles: 4 | Preserved With: ICE-FLTR                                                                                         |
| W-PO <sub>4</sub> -F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                         |

# Log-in Checklist

RQ- 2016-02-08-09

Shipping Method: HD

Date/Time of Receipt: 02-09-16/13:28

| 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       | 2.4C                | 10                              |               | <input checked="" type="checkbox"/> |          |    |                                                       |
| Red       | 2.0C                | 10                              |               | <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 ☐

## CONTAINER CHECK

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

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

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

## CHLORINE CHECK (Blue dot on container)

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

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

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

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

Coolers Unpacked/Checked by: APB Date: 02-09-16 NCRs (Y/N)?   

Event ID: Lake Arrowhead, Lake Kanturk, Peti

WQAP-2016-02-09-02 (SMP)

Date Received: 09-FEB-2016 13:28

NCR #

## Log-in Checklist

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

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

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

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

### Bottles Not Intact

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

### Samples with Insufficient Volume for Analyses

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

## ENCORE SAMPLES

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

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

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 – Methyl Mercury Preservation Check:**

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

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

**Additional Comments:**