

## Klug, Kyle

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**From:** Musson, Curtis  
**Sent:** Wednesday, August 17, 2022 1:06 PM  
**To:** Klug, Kyle; Slade, Christopher "Stopher"  
**Subject:** RE: RQ-2022-06-20-41

That is okay for the field ID w/ the SCI.

**From:** Klug, Kyle <Kyle.Klug@FloridaDEP.gov>  
**Sent:** Wednesday, August 17, 2022 1:02 PM  
**To:** Slade, Christopher "Stopher" <Christopher.Slade@dep.state.fl.us>  
**Cc:** Musson, Curtis <Curtis.Musson@FloridaDEP.gov>  
**Subject:** RE: RQ-2022-06-20-41

Only the metals and overflow micro samples. Though the short holds were not expired, they would still be qualified for being out of temp.

**From:** Slade, Christopher "Stopher" <Christopher.Slade@dep.state.fl.us>  
**Sent:** Wednesday, August 17, 2022 11:22 AM  
**To:** Klug, Kyle <Kyle.Klug@FloridaDEP.gov>  
**Cc:** Musson, Curtis <Curtis.Musson@FloridaDEP.gov>  
**Subject:** RE: RQ-2022-06-20-41

Thanks for the update Kyle. According to the protocol, does the non organic water samples associated with the SCI also get logged in?

Stopher

On Aug 17, 2022 10:04, "Klug, Kyle" <Kyle.Klug@FloridaDEP.gov> wrote:  
I would also like to add that I will be logging in the metals and overflow micro samples as well.

**From:** Klug, Kyle  
**Sent:** Wednesday, August 17, 2022 10:54 AM  
**To:** Slade, Christopher "Stopher" <Christopher.Slade@dep.state.fl.us>  
**Cc:** King, Michael <Michael.King@dep.state.fl.us>  
**Subject:** RE: RQ-2022-06-20-41  
**Importance:** High

Good morning,

We received the two coolers for this event and unfortunately all of the samples would have a 'Y' qualifier as they arrived out of temp. The short holds for site G5NW0068 would also be 'Q' qualified. Based off of the SMP protocol, I will only be logging in the organic samples and the SCI samples. Please let me know if you have any questions and sorry for the inconvenience 😞

Thank you,  
Kyle

# Login Checklist

RQ- 2022-06-20-41

Login Station ID: #1

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 8/ 17 /22 @ 09:28

| *Cooler Temperature | Samples Frozen? | * All Samples in Cooler Preserved with |          | Number of Sample Containers in Cooler | Evidence Tape |    |          |    | Waybill Tracking # |
|---------------------|-----------------|----------------------------------------|----------|---------------------------------------|---------------|----|----------|----|--------------------|
|                     | YES             | HNO <sub>3</sub>                       | Formalin |                                       | Present?      |    | *Intact? |    |                    |
|                     |                 |                                        |          |                                       | Yes           | No | Yes      | No |                    |
| 23.9                |                 |                                        | ✓        | 3                                     |               | ✓  |          |    | 5225 5547 7956     |
| 12.8                |                 |                                        |          | 14                                    |               | ✓  |          |    | 5225 5547 0808     |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |

## COOLER CHECK

\*All samples received on ice unless otherwise noted. HNO3 and Formalin preserved samples do NOT have a temperature requirement.

- If the temperature of a cooler exceeds 6.0 oC (above 10.0 oC for W-1-4-DIOX and microbiology) or received without ice, identify affected samples in an NCR. NCR# \_\_\_\_\_
- DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C for W-1-4-DIOX) without login confirmation from customer for samples requiring ice preservation; identify affected samples in an NCR. NCR# \_\_\_\_\_
- If cooler or samples are received with a damaged Evidence Seal; identify the affected samples in an NCR. NCR# \_\_\_\_\_
- If coolers or samples are received late; identify the affected samples in an NCR. NCR# 9516

Chain of Custody/ Field Sheet(s) Included?

Yes ✓ No \_\_\_\_\_

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included?

Yes \_\_\_\_\_ No ✓

## CONTAINER CHECK

Evidence Tape on Bottles?

Yes \_\_\_\_\_ No \_\_\_\_\_ NA ✓

Evidence Tape intact? Yes \_\_\_\_\_ No \_\_\_\_\_

If Criminal, photographs taken?

Yes \_\_\_\_\_ No \_\_\_\_\_

Containers intact? Yes ✓ No \_\_\_\_\_

Caps on tight?

Yes ✓ No \_\_\_\_\_

Sufficient Sample Volume:

Yes ✓ No \_\_\_\_\_

If NO is checked above, generate an NCR listing affected sample IDs in its appropriate category. NCR# \_\_\_\_\_

**CHLORINE CHECK REQUIRED?** (Blue dot on container)

Yes ✓ No \_\_\_\_\_ Init: HK

Chlorine detected? (One container checked per Field ID)

Yes \_\_\_\_\_ No ✓ Init: HK

If chlorine is detected, generate an NCR listing affected sample IDs . NCR# \_\_\_\_\_

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

\*\*Acid Preserved Samples: pH< 2.0?

Yes ✓ No \_\_\_\_\_ NA HK Init: HK

\*\*W-1-4-DIOX (Green dot on container) preserved to pH<4.0?

Yes \_\_\_\_\_ No \_\_\_\_\_ NA ✓ Init: HK

If samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# \_\_\_\_\_

Coolers Unpacked/Checked by: HK

Date: 8/ 17 /22

Event contains NCRs (Y/N)? Y

Event ID: Rest Area Run Bioassessment  
NW-DIST-2022-08-17-02 (SMP)

Date Received: 17-AUG-2022 09:28

# Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

|                          |                             |
|--------------------------|-----------------------------|
| Infrared Thermometer ID: | IR TEMP GUN #1 EXP:10-19-22 |
| pH Test Strips 0 – 6     | Lot#223819 EXP:8-30-23      |
| pH Paper 0 – 3           |                             |
| pH Paper 0 – 13          | Lot#207621 EXP:3-15-24      |
| Chlorine Test Strips     | Lot#0070 EXP:2-23           |

## ENCORE SAMPLES

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

Were Encore samples received? Yes \_\_\_\_\_ Init: \_\_\_\_\_

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 \_\_\_\_\_

If S-VOC-MS samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# \_\_\_\_\_

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

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

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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CHAIN OF CUSTODY FORM

**Date:** 8/15/2022  
**Customer:** NW-DIST  
**RQ:** RQ-2022-06-20-41  
**Collected By:** Nathan Mulkey, Brook Olin  
**Sampling Agency:** FDEP  
**Project ID:** SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL  
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

**Number of Coolers Shipped:** 2 **Delivery Method:** FedEx

**FIELD ID (Labels) submitted under this RQ for this collection date.**

| Site Location                         | Field ID/WIN ID                                                                                |
|---------------------------------------|------------------------------------------------------------------------------------------------|
| Beaver Pond Creek                     | <br>33010066 |
| Rest Area Run below Beaver Pond Creek | <br>G5NW0068 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 8/15/2022

1600 CEN

**THIS SECTION TO BE COMPLETED BY LABORATORY**

Rec'd/Inspected By: *HK*

Rec'd/Inspected

Date: *8-17-22 / 0928*



RQ-2022-06-20-41

Collected By: Nathan Mulkey, Brook Olin

Customer: FDEP

Field Report Prepared by: Nathan Mulkey, Brook Olin

Project ID: SMP

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: 33010066

Comments: Microbiology sample(s) submitted to contract laboratory.

Location:

Location: Beaver Pond Creek

Matrix: Fresh

(Check One) ☒ Grab ☐ Composite

| Date and Time<br>{CEN} | DO<br>(mg/L) | DO<br>(%SAT) | Temp. © | pH   | Sample<br>Depth<br>(m) | Secchi<br>Depth | Total<br>Depth<br>(m) | Sp COND<br>(µmhos<br>/cm) | Salinity<br>(PPTH |
|------------------------|--------------|--------------|---------|------|------------------------|-----------------|-----------------------|---------------------------|-------------------|
| 8/15/2022<br>1115      | 5.7          | 68.7         | 24.6    | 6.58 | 0.1                    | 0.2             | 0.2                   | 183.4                     | 0.09              |

  

| Parameter Suite                    | Parameter Methods |                                                                            |                      |                                             | Preservation                  |           | pH<br>Check | # Bottles<br>sent to Lab | Bottle<br>Group |
|------------------------------------|-------------------|----------------------------------------------------------------------------|----------------------|---------------------------------------------|-------------------------------|-----------|-------------|--------------------------|-----------------|
| Preserved Nutrients (P-500ML)      | X                 | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                |                      |                                             | X                             | Ice       | X           | H2SO4*                   |                 |
|                                    |                   | Lot # 2145160                                                              |                      | Exp: 6/2/23                                 |                               |           | <2          | 1                        | A               |
| Metals (P-500ML)                   | X                 | W-ICPMS                                                                    |                      | X                                           | W-ICP                         | X         | W-HARD      | X                        | HNO3*           |
|                                    |                   | Lot # 1286110                                                              |                      | Exp: 11/16/22                               |                               |           | <2          | 1                        | A               |
| Filtered Nutrients (P125ML)        | X                 | W-PO4-F                                                                    |                      | X                                           | Field Filtered 0.45 µm Filter |           | X           | Ice                      |                 |
|                                    |                   | Filter Lot #                                                               | Syringe Lot #        |                                             |                               |           |             |                          |                 |
| BOD (BP-1L)                        |                   | OV-BODUNIN                                                                 |                      |                                             |                               |           | Ice         |                          |                 |
| Chlorophyll (BP-1L)                | X                 | CHLSUITE-W                                                                 |                      |                                             |                               | X         | Ice         |                          | 1               |
| Physical/Aggregate (Fresh) (P-1L)  | X                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W- TDS |                      |                                             |                               | X         | Ice         |                          | 1               |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                       |                      |                                             |                               |           | Ice         |                          |                 |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                 | Formalin Lot # 81522 |                                             | X                             | Formalin  |             |                          | 3               |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                   |                      |                                             |                               |           | Ice         |                          |                 |
| Microbiology (Contract Lab Bottle) | X                 | E Coli                                                                     |                      |                                             | F Coli                        |           | Enterococci | X                        | Ice             |
|                                    | X                 | Contract Lab                                                               |                      |                                             |                               |           |             |                          | 1               |
| Molecular (QPCR-P-500ML)           |                   | PCR-HF183                                                                  |                      |                                             | PCR-BacR                      |           | PCR-DG3     |                          |                 |
|                                    |                   | PCR-GULL2                                                                  |                      |                                             | PCR-GFD                       |           |             |                          |                 |
| Tracers (BG-500ML)                 |                   | W-E8321-DI                                                                 |                      |                                             | W-E8321-MS                    |           |             | Ice                      |                 |
| Pesticides (BG-500ML) (BG-1L)      | X                 | W-E8321-DI                                                                 | X                    | W-E8321-MS                                  | X                             | W-PSNP-TQ |             | MCAA<br>Exp.             | MCAA<br>Lot#    |
|                                    |                   | W-PCL-TQ-R                                                                 |                      | W-CARB-AA (5 ml of<br>MCAA Buffer Solution) |                               | W-CT-CL-R | X           | Ice                      |                 |
|                                    | X                 | W-TR-SQ-R                                                                  |                      |                                             | W-PCB-TQ-R                    |           |             |                          | 5               |
| Phytoplankton                      |                   | DTY-QN-C                                                                   |                      |                                             | PKD-QN-BV                     |           |             | Ice                      |                 |



RQ-2022-06-20-41

Collected By: Nathan Mulkey, Brook Olin

Customer: FDEP

Field Report Prepared by: Nathan Mulkey, Brook Olin

Project ID: SMP

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G5NW0068

Comments: Microbiology sample(s) submitted to contract laboratory.

Location:

Location: Rest Area Run below Beaver Pond Creek

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

| Date and Time {CEN} | DO (mg/L) | DO (%SAT) | Temp. © | pH   | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPTH) |
|---------------------|-----------|-----------|---------|------|------------------|--------------|-----------------|---------------------|-----------------|
| 8/15/2022<br>855    | 7.07      | 85        | 24.7    | 5.97 | 0.2              | 0.4          | 0.4             | 72.1                | 0.03            |

| Parameter Suite                    | Parameter Methods |                                                                              |                                          |                               | Preservation |             |          |     | pH Check  | # Bottles sent to Lab | Bottle Group |   |    |   |   |
|------------------------------------|-------------------|------------------------------------------------------------------------------|------------------------------------------|-------------------------------|--------------|-------------|----------|-----|-----------|-----------------------|--------------|---|----|---|---|
| Preserved Nutrients (P-500ML)      | X                 | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |                                          |                               |              | X           | Ice      | X   | H2SO4*    |                       | <2           | 1 | C  |   |   |
|                                    |                   | Lot #                                                                        |                                          | 2145160                       |              | Exp:        | 6/2/23   |     |           |                       |              |   |    |   |   |
| Metals (P-500ML)                   | X                 | W-ICPMS                                                                      |                                          | X                             | W-ICP        | X           | W-HARD   | X   | Ice       | X                     | HNO3*        |   | <2 | 1 | C |
|                                    |                   | Lot #                                                                        |                                          | 1286110                       |              | Exp:        | 11/16/22 |     |           |                       |              |   |    |   |   |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                      |                                          | Field Filtered 0.45 µm Filter |              |             |          | Ice |           |                       |              |   |    |   |   |
|                                    |                   | Filter Lot #                                                                 |                                          | Syringe Lot #                 |              |             |          |     |           |                       |              |   |    |   |   |
| BOD (BP-1L)                        |                   | OV-BODUNIN                                                                   |                                          |                               |              |             | Ice      |     |           |                       |              |   |    |   |   |
| Chlorophyll (BP-1L)                | X                 | CHLSUITE-W                                                                   |                                          |                               |              | X           | Ice      |     |           |                       | 1            | C |    |   |   |
| Physical/Aggregate (Fresh) (P-1L)  | X                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W- TDS |                                          |                               |              | X           | Ice      |     |           |                       | 1            | C |    |   |   |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                         |                                          |                               |              |             | Ice      |     |           |                       |              |   |    |   |   |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                   | Formalin Lot #                           |                               |              |             | Formalin |     |           |                       |              |   |    |   |   |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                     |                                          |                               |              |             | Ice      |     |           |                       |              |   |    |   |   |
| Microbiology (Contract Lab Bottle) | X                 | E Coli                                                                       |                                          | F Coli                        |              | Enterococci |          | X   | Ice       |                       |              | 1 | C  |   |   |
|                                    | X                 | Contract Lab                                                                 |                                          |                               |              |             |          |     |           |                       |              |   |    |   |   |
| Molecular (QPCR-P-500ML)           |                   | PCR-HF183                                                                    |                                          | PCR-BacR                      |              | PCR-DG3     |          |     | Ice       |                       |              |   |    |   |   |
|                                    |                   | PCR-GULL2                                                                    |                                          | PCR-GFD                       |              |             |          |     |           |                       |              |   |    |   |   |
| Tracers (BG-500ML)                 |                   | W-E8321-DI                                                                   |                                          | W-E8321-MS                    |              |             |          |     | Ice       |                       |              |   |    |   |   |
| Pesticides (BG-500ML) (BG-1L)      |                   | W-E8321-DI                                                                   | W-E8321-MS                               |                               | W-PSNP-TQ    |             |          | Ice | MCAA Exp. | MCAA Lot#             |              |   |    |   |   |
|                                    |                   | W-PCL-TQ-R                                                                   | W-CARB-AA (5 ml of MCAA Buffer Solution) |                               | W-CT-CL-R    |             |          |     |           |                       |              |   |    |   |   |
|                                    |                   | W-TR-SQ-R                                                                    | W-PCB-TQ-R                               |                               |              |             |          |     |           |                       |              |   |    |   |   |
| Phytoplankton                      |                   | DTY-QN-C                                                                     |                                          | PKD-QN-BV                     |              |             |          |     | Ice       |                       |              |   |    |   |   |

## Document Reference # 05.1.0

Sampler's initials :

Page 1 of 1

Date/Time: 8/13/22 1:12:55

Date/Time: 8/15/2011 1:12:55

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|                    |                |
|--------------------|----------------|
| Sampling Date/Time | 8/15/22 / 0855 |
|                    | ↓ / 115        |

Surface water, no chlorine expected

**RQ - 2022-06-20-41**

Phone: 850-595-8300

**Sampler's name:**

<sup>2</sup>Type codes: G = grab, C = composite, X =

<sup>3</sup> Recorded using IRT-2

Date of Request: 26-MAY-2022  
 Created By: SLADE\_C On: 26-MAY-2022  
 Modified By: JASROTIA\_P On: 01-JUN-2022  
 Customer: NW-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northwest District NWROC  
 Event Description: Rest Area Run Bioassessment

**Send Coolers To:**

Phone: 850-595-0567  
 160 W Government Street  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Stopher Slade  
 Cooler Ship EMail: christopher.slade@dep.state.fl.us

Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: AYRES\_J On: 01-JUN-2022  
 Biology Request Reviewed By: JASROTIA\_P On: 01-JUN-2022  
 Sampling Kit Required: YES Ship on: 10-JUN-2022  
 Sampling Kit Shipped: YES On: 09-JUN-2022  
 Sampling Kit Packed By: MCCOY\_I  
 Preservatives Needed: NO  
 Date to Receive Samples: 20-JUN-2022  
 Logged In By:

**Send Final Report To:**

160 W Government Street  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Myranda Butler  
 Report Notification EMail:  
 michael.king@floridaDEP.gov;myranda.k.butler@floridaDEP.gov

Comments: Group A: Nutrients, Metals, Tracers, Pest  
 Group B: SCI, Algae\_ID  
 Group C: Nutrients Metals, Contract Lab Bacteria

#####  
 W-TR-SQ-R (sunscreen)

Wash your hands thoroughly and wear gloves. Refrain from using sunscreens on the day of sample collection.

#####

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

|                          |                      |                                                                                                              |
|--------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L        | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| ALKALINITY               | Template: DEFAULT    | (SM 2320 B-2011) 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    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                           |
| Color (true)             |                      |                                                                                                              |
| W-F                      | Template: DEFAULT    | (SM 4500-F- C-2011) 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-2011) Total Dissolved Solids in aqueous matrices                                                  |
| W-TSS                    | Template: DEFAULT    | (SM 2540 D-2011) 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: TEST HAS NO | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| NW-UWF-ECQ               | Template: DEFAULT    | (SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola                                        |
| Bottle Type: BG-500ML    | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| W-E8321-DI               | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                      |
| W-E8321-MS               | Template: SMP        | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                      |
| Bottle Type: P-500ML     | Number of Bottles: 2 | Preserved With: HNO <sub>3</sub>                                                                             |
| W-HARD                   | Template: DEFAULT    | (SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO <sub>3</sub>            |

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 2 | Preserved With: HNO3                                                                                                                           |
| W-HARD               | Template: DEFAULT    | (SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3                                                          |
| Hardness             |                      |                                                                                                                                                |
| W-ICP                | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Barium               |                      |                                                                                                                                                |
| Calcium              |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| Manganese            |                      |                                                                                                                                                |
| Potassium            |                      |                                                                                                                                                |
| Sodium               |                      |                                                                                                                                                |
| Strontium            |                      |                                                                                                                                                |
| Tin                  |                      |                                                                                                                                                |
| Titanium             |                      |                                                                                                                                                |
| Vanadium             |                      |                                                                                                                                                |
| Zinc                 |                      |                                                                                                                                                |
| W-ICPMS              | Template: DEFAULT    | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |
| Barium               |                      |                                                                                                                                                |
| Beryllium            |                      |                                                                                                                                                |
| Boron                |                      |                                                                                                                                                |
| Cadmium              |                      |                                                                                                                                                |
| Chromium             |                      |                                                                                                                                                |
| Cobalt               |                      |                                                                                                                                                |
| Copper               |                      |                                                                                                                                                |
| Lead                 |                      |                                                                                                                                                |
| Manganese            |                      |                                                                                                                                                |
| Molybdenum           |                      |                                                                                                                                                |
| Nickel               |                      |                                                                                                                                                |
| Selenium             |                      |                                                                                                                                                |
| Silver               |                      |                                                                                                                                                |
| Thallium             |                      |                                                                                                                                                |

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 2 | Preserved With: ICE And H2SO4                                                            |
| W-NH3                | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                               |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                       |
| W-S-A-TP             | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                      |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                         |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) 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: BG-1L   | Number of Bottles: 6 | Preserved With: ICE                                                                      |
| W-PSNP-TQ            | Template: DEFAULT    | (EPA 8270E) Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS       |
| W-TR-SQ-R            | Template:            | (EPA 8270E) Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM   |

**Bottle Group B (Biological) With 3 Samples:**

|                      |                      |                                                                        |
|----------------------|----------------------|------------------------------------------------------------------------|
| Bottle Type: PJ-2L   | Number of Bottles: 6 | Preserved With: Formalin                                               |
| MI-FW-QLDC           | Template: DEFAULT    | (SOP-IZ06) No. Taxa of FW macroinverts, qual samp, 20 dipnets.         |
| Bottle Type: PT-50ML | Number of Bottles: 3 | Preserved With: ICE                                                    |
| ALGAL_ID             | Template: DEFAULT    | (SOP-AB05) Qualitative assessment of algal taxa present without counts |

**Bottle Group C (Water) With 1 Samples:**

|                   |                      |                                                                                    |
|-------------------|----------------------|------------------------------------------------------------------------------------|
| Bottle Type: P-1L | Number of Bottles: 1 | Preserved With: ICE                                                                |
| ALKALINITY        | Template: DEFAULT    | (SM 2320 B-2011) 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    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring) |
| Color (true)      |                      |                                                                                    |