RQ-2018-03-26-15

# Log-in Checklist

Shipping Method: FedEx | UPS | HD | Greyhound | Fedex Date/Time of Receipt: 3-27-18/10:08

| 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 | 2.4 | 12 | | ✓ | | | |
| Red | 1.4 | 12 | | ✓ | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

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

**Chain of Custody/ Field Sheet(s) Included? Yes ✓ No____

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

**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-E8321-DI, -MS, -21 | | | W-NP-AA-SF | | |
| W-BNA (-625, -R) | | | W-PDQUAT | | |
| W-CARB-AA (-CAB-AA-R) | | | W-PCL-SQ-R | | |
| W-U2060-MS | | | W-TR-TQ | | |
| W-PCB-R | | | W-CT-CI-R | | |
| W-PAH (-R) | | | W-PSNP-TQ | | |

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

**Acid Preserved Samples: pH ≤ 2.0? Yes ✓ No____ NA____ Init: SK

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes____ No____ NA ✓ Init: SK

**Coolers Unpacked/Checked by:** SK **Date:** 3-27-18 **NCRs (Y/N)?** Y

**Event ID:** NW-DIST-2018-03-27-02 **NCR #** 6946

# Log-in Checklist

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

| Field ID | Bottle Test ID(s) | pH / Cl | Action Taken |
|---|---|---|---|
| G4NW0315 | W-NH3/W-NO2NO3/ W-S-A-TP/W-TKN/ W-TOC | <2 | Preserved in lab on 3.27.18 w/ Sulfuric Acid @ 10:58 |
| | | | |
| | | | |
| | | | |

**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 | |
| ~~G4NW0315~~ | | | | | | | |
| | | | | | | | |
| | | | | | | | |

**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:**

**Request Number: RQ-2018-03-26-15**

Laurel Hill West

# Florida Department of Environmental Protection
## Central Laboratory Submittal Form



last revised Jan 25, 2018

**Customer: NW-DIST**

**Project ID: SMP**

Requester: Michael King

Field Report Prepared By: N. Mulkey

Collected By: Nathan Mulkey / Jimmy Pitts

Sampling Agency: NWROC

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**Field/WIN ID** G4NW0349

Location: Pond Creek in McCloud Bay upstream of Hwy 393

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/26/18 Time 0955 Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc): | Diss. Oxygen 8.94 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 16.81 | pH 6.34 | Sample Depth 0.2 ☐ ft ☒ m | Sp. Conductance (umho/cm) 31

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments

---

**Field/WIN ID** G4NW0308

Location: Long Creek upstream of Long Road

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/26/18 Time 1035 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): | Diss. Oxygen 8.96 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 16.70 | pH 6.03 | Sample Depth 0.2 ☐ ft ☒ m | Sp. Conductance (umho/cm) 22

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments

---

**Field/WIN ID** G4NW0330

Location: Beech Tree Creek above un-named road

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/26/18 Time 1045 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): | Diss. Oxygen 9.52 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 15.77 | pH 5.26 | Sample Depth 0.2 ☐ ft ☒ m | Sp. Conductance (umho/cm) 4

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments

---

**Field/WIN ID** G4NW0315

Location: Pine Log Creek upstream of Long Road

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/26/18 Time 1105 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): | Diss. Oxygen 9.07 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 16.70 | pH 6.40 | Sample Depth 0.2 ☐ ft ☒ m | Sp. Conductance (umho/cm) 28

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments

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| Relinquished By: | Date/Time | Shipping Method | Number of Coolers Shipped: | Received By: | Date/Time |
|---|---|---|---|---|---|
| | 3/26/18 | FedEx | 2 | SR | 3/27/18 10:08 |

| Group: A | Bottle Type: | P-1L | # of Bottles: 6 | Preservative: | ICE | Enter Number of Bottles Sent to Lab 4 |
|---|---|---|---|---|---|---|
| | ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS | | | | | |

| Group: A | Bottle Type: | BP-1L | # of Bottles: 6 | Preservative: | ICE | Enter Number of Bottles Sent to Lab 4 |
|---|---|---|---|---|---|---|
| | CHLSUITE-W | | | | | |

| Group: A | Bottle Type: | TEST HAS NO BOTTLE | # of Bottles: 6 | Preservative: | ICE | Enter Number of Bottles Sent to Lab 4 |
|---|---|---|---|---|---|---|
| | NW-UWF-ECQ | | | | | |

| Group: A | Bottle Type: | P-500ML | # of Bottles: 6 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab 4 |
|---|---|---|---|---|---|---|
| | W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | | | | | |

| Group: A | Bottle Type: | P-125ML | # of Bottles: 6 | Preservative: | FILTER-ICE | Enter Number of Bottles Sent to Lab 4 |
|---|---|---|---|---|---|---|
| | W-PO4-F | | | | | |

**Request Number: RQ-2018-03-26-15**

Laurel Hill West

# Florida Department of Environmental Protection
## Central Laboratory Submittal Form



last revised Jan 25, 2018

**Customer: NW-DIST**

**Project ID: SMP**

Requester: Michael King

Field Report Prepared By:

Collected By:

Sampling Agency:

---

**Field/WIN ID** G4NW0208

Location: East Branch Pine Log Creek above Bear Bay Flats Road

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Location | | | ☐ Comp ☑ Grab | Collection (comp begin or grab) Date 3/26/18 Time 1130 | Eastern Central | Composite end Date | Time | | | Bottle Group(s) (See pg 2) A |
| Field ID | | | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen 7.99 | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | | |
| WIN/STORET # | | | Temp (C) 16.46 | pH 6.25 | Sample Depth 0.2 | ☐ ft ☑ m | Sp. Conductance (umho/cm) 32 | | | |
| Latitude | ☐ dd ☐ dms | Longitude | ☐ dd ☐ dms | Salinity (ppt) | Comments | | | | | |

**Field/WIN ID** G4NW0409

Location: Turkey Creek above Willams Rd

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Location | | | ☐ Comp ☑ Grab | Collection (comp begin or grab) Date 3/26/18 Time 1215 | Eastern Central | Composite end Date | Time | | | Bottle Group(s) A |
| Field ID | | | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen 9.20 | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | | |
| WIN/STORET # | | | Temp (C) 16.89 | pH 6.09 | Sample Depth 0.2 | ☐ ft ☑ m | Sp. Conductance (umho/cm) 31 | | | |
| Latitude | ☐ dd ☐ dms | Longitude | ☐ dd ☐ dms | Salinity (ppt) | Comments | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Location | | | ☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern Central | Composite end Date | Time | | | Bottle Group(s) |
| Field ID | | | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | | |
| WIN/STORET # | | | Temp (C) | pH | Sample Depth | ☐ ft ☐ m | Sp. Conductance (umho/cm) | | | |
| Latitude | ☐ dd ☐ dms | Longitude | ☐ dd ☐ dms | Salinity (ppt) | Comments | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Location | | | ☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern Central | Composite end Date | Time | | | Bottle Group(s) |
| Field ID | | | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | | |
| WIN/STORET # | | | Temp (C) | pH | Sample Depth | ☐ ft ☐ m | Sp. Conductance (umho/cm) | | | |
| Latitude | ☐ dd ☐ dms | Longitude | ☐ dd ☐ dms | Salinity (ppt) | Comments | | | | | |

| Relinquished By: | Date/Time | Shipping Method | Number of Coolers Shipped: | Received By: | Date/Time |
|---|---|---|---|---|---|
| | 3/26/18 | Fed Ex | 2 | SK | 3-27-18 / 10:08 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group: A | Bottle Type: | P-1L | # of Bottles: 6 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 2 |
| | ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS | | | | | | |
| Group: A | Bottle Type: | BP-1L | # of Bottles: 6 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 2 |
| | CHLSUITE-W | | | | | | |
| Group: A | Bottle Type: | TEST HAS NO BOTTLE | # of Bottles: 6 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 2 |
| | NW-UWF-ECQ | | | | | | |
| Group: A | Bottle Type: | P-500ML | # of Bottles: 6 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 2 |
| | W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | | | | | | |
| Group: A | Bottle Type: | P-125ML | # of Bottles: 6 | Preservative: | FILTER-ICE | Enter Number of Bottles Sent to Lab | 2 |
| | W-PO4-F | | | | | | |

SAMPLE TRANSMITTAL FORM

Document Reference # 05.1.0

Project: FDEP

Laboratory: Wetlands Research Laboratory

Sampler's intials : NM

Method of transport: Drop off on ice by automobile

Page _1_ of _1

Samples delivered by: [signature] FDEP

Date/Time: 3/26/18 1335

Sample received by: [signature] of WRL

Date/Time: 3/26/18 1335

Instructions: Fill in all fields except "Lab ID" on sample transport form completely. Each sample container must use a separate line. Place this form in a waterproof bag and place it with the samples for transport. If a field log or other chain of custody is attached, that information may be referenced on this form and the log or COC attached.

CST

| Lab ID | Sample ID | Matrix[1] | Type[2] | Container Type | Analyses Requested | Preservative | Sample (°C)[3] | Sampling Date/Time |
|---|---|---|---|---|---|---|---|---|
| 18-43608 | G4NW0349 Pond Creek | SW | G | Sterile plastic | Escherichia Coli | ice/Na2S2O3 | 3.8 | 3/26/18 0955 |
| 18-43609 | G4NW0308 Long Creek | ↓ | ↓ | ↓ | ↓ | ↓ | 3.7 | 1035 |
| 18-43610 | G4NW0330 Beech Tree Creek | ↓ | ↓ | ↓ | ↓ | ↓ | 3.7 | 1045 |
| 18-43611 | G4NW0315 Pine Log Creek | ↓ | ↓ | ↓ | ↓ | ↓ | 3.9 | 1105 |
| 18-43612 | G4NW0208 East Branch Pine Log | ↓ | ↓ | ↓ | ↓ | ↓ | 3.6 | ↓ 1130 |
| 18-43613 | G4NW0409 Turkey Creek | ↓ | ↓ | ↓ | ↓ | ↓ | 5.4 | ↓ 1215 |
| | | | | | | | | |
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Comments sample container lot# #18005

RQ-2018-03-26-15

Contact organization FDEP_NWROC

Contact name _____

Phone: (850) 595-8300

Address 160 W Governmental Street, suite 208, Pensacola, FL 32502

Sampler's name: Nathan Mulky

[1]Matrix: SW = surface water, PW = pore water, GW = ground water, S = soil/sediment, X = _____

[2]Type codes: G = grab, C = composite, X = _____

[3] Recorded using IRT-2

# RQ-2018-03-26-15



| | |
|---|---|
| Date of Request: | 15-FEB-2018 |
| Created By: | KING_M On: 15-FEB-2018 |
| Modified By: | SWANSON_C On: 12-MAR-2018 |
| Customer: | NW-DIST |
| Project: | SMP |
| Division: | Division of Environmental Assessment and Restoration |
| District: | Northwest District |
| Sampling Event: | Laurel Hill West |

**Send Coolers To:**

Phone: SC-695-0605
160 W Government St
Suite 208A
Pensacola, FL 32502-5794
Attn: Michael King

**Send Final Report To:**

160 W Government St
Suite 208A
Pensacola, FL 32502-5794
Attn: Michael King

| | |
|---|---|
| Program Module Number: | 1306 |
| Priority: | 3 |
| Event Status: | S |
| Criminal Investigation: | NO |
| Chemistry Request Reviewed By: | WATTS_J On: 12-MAR-2018 |
| Biology Request Reviewed By: | SWANSON_C On: 12-MAR-2018 |
| Sampling Kit Required: | YES Ship on: 16-MAR-2018 |
| Sampling Kit Shipped: | YES On: 15-MAR-2018 |
| Sampling Kit Packed By: | REAVES_S |
| Preservatives Needed: | NO |
| Date to Receive Samples: | 26-MAR-2018 |
| Received By: | |

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

Comments: Group A: (WBID 101, 196, 35A, 76, 92, 117) Freshwater Kit, Contract Lab Bacteria

## Bottle Group A (Water) With 6 Samples:

| | | | |
|---|---|---|---|
| Bottle Type: P-1L | | Number of Bottles: 6 | 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: BP-1L | | Number of Bottles: 6 | 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: 6 | Preserved With: ICE |
| NW-UWF-ECQ | Template: | DEFAULT | (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by UWF Overflow Laboratory for NWD |
| Bottle Type: P-500ML | | Number of Bottles: 6 | 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: 6 | 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 |

FedEx®

# Do Not Lift Using This Tag

ORIGIN ID:PNSA (850) 595-0673
MICHAEL KING

160 GOVERNMENT CENTER SUITE 208 A

PENSACOLA, FL 32502
UNITED STATES US

SHIP DATE: 15MAR18
ACTWGT: 15.00 LB
CAD: 100182098/INET3980

TO **AMZAD SHAIK**
**FL DEP**
**FL DEP CHEMISTRY SECTION**
**2600 BLAIR STONE RD**
**TALLAHASSEE FL 32399**
(850) 245-8085 REF:
INV:
PO: DEPT:

RMA:

552J1/07F5/DCA5

FedEx Express

FedEx.
TRK# 0221 7954 4542 9337

**TUE - 27 MAR 10:30A**
**PRIORITY OVERNIGHT**

**XH TLHA**

**32399**
FL-US
**TLH**

FID 974582 26MAR18 PNSA 546C1/07F5/0C8A

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## Using This Tag

PNSA (850) 595-0673
KING
160 GOVERNMENT CENTER SUITE 208 A
PENSACOLA, FL 32502
UNITED STATES US

SHIP DATE: 15MAR18
ACTWGT: 15.00 LB
CAD: 100182098/INET3980

TO **AMZAD SHAIK**
**FL DEP**
**FL DEP CHEMISTRY SECTION**
**2600 BLAIR STONE RD**
**TALLAHASSEE FL 32399**
(850) 245-8085
INV:
PO:
REF:
RMA:
DEPT:

552J1/0; F5/DCA5

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FedEx
TRK# 0221 7954 4542 9315

TUE - 27 MAR 10:30A
PRIORITY OVERNIGHT

XH TLHA

32399
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FID 974582 26MAR18 PNSA 546C1/07F5/0C8A

Part # 156297-435 RRDB EXP 10/18