last revised Apr 7, 2016

**Request Number: RQ-2017-03-20-50**

Hatchineha Canal / Reedy Below Russell

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

**Customer: CEN-DIST**

**Project ID: SMP**

Requester: Michael Linger

Field Report Prepared By: Terry Riordan

Collected By: Terry Riordan / Mike Drennan

Sampling Agency: 21 FLCEW

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Location: Hatchineha Canal @ 1.1 km US of Lake Hatchineha<br>**Date: 03/20/2017**<br>**RQ-2017-03-20-50** | **G4CE0143**<br>Field ID ↑<br>STORET ↓<br>G4CE0143 | ☐ Comp ☑ Grab | Collection (comp begin or grab) Date 3-20-17 Time 1107 | Eastern Central | Composite end Date | Time | Bottle Group(s) (See pg 2) A B | | | | |
| Field ID | | Matrix (type, e.g., Salt, Fresh, etc) | | Diss. Oxygen 8.1 | ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | | | | |
| STORET # | | Temp (C) 20.4 | pH 7.5 | Sample Depth 0.3 | ☐ ft ☑ m | Sp. Conductance (umho/cm) 172 | | | | | |
| Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) 0.1 | 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) | | | | | |
| 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) | | | | | |
| 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) | | | | | |
| 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) | | | | | |
| 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 |
|---|---|---|---|---|---|
| Terry Riordan | 3-20-17 / 1505 | FedEx | 1 | | 3/21/17 9:45 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group: A | Bottle Type: | P-1L | # of Bottles: 1 | Preservative: | ICE | **Enter Number of Bottles Sent to Lab** | 0 |
| | 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: 1 | Preservative: | ICE | **Enter Number of Bottles Sent to Lab** | 0 |
| | CHLSUITE-W | | | | | | |
| Group: A | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: | HNO3 | **Enter Number of Bottles Sent to Lab** | 0 |
| | W-ICP<br>W-ICPMS | | | | | | |
| Group: A | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: | ICE And H2SO4 | **Enter Number of Bottles Sent to Lab** | 0 |
| | W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | | | | | | |
| Group: A | Bottle Type: | P-125ML | # of Bottles: 1 | Preservative: | ICE-FLTR | **Enter Number of Bottles Sent to Lab** | 0 |
| | W-PO4-F | | | | | | |
| Group: B | Bottle Type: | P-1L | # of Bottles: 3 | Preservative: | ICE | **Enter Number of Bottles Sent to Lab** | 1 |
| | ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS | | | | | | |
| Group: B | Bottle Type: | BP-1L | # of Bottles: 3 | Preservative: | ICE | **Enter Number of Bottles Sent to Lab** | 1 |
| | CHLSUITE-W | | | | | | |

| Group: | Bottle Type: | | # of Bottles: | | Preservative: | | Enter Number of Bottles Sent to Lab |
|---|---|---|---|---|---|---|---|
| B | P-500ML | | 3 | | ICE And H2SO4 | | 1 |

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

| Group: | Bottle Type: | | # of Bottles: | | Preservative: | | Enter Number of Bottles Sent to Lab |
|---|---|---|---|---|---|---|---|
| B | P-125ML | | 3 | | ICE-FLTR | | 1 |

W-PO4-F

# RQ-2017-03-20-50



Date of Request: 02-MAR-2017
Created By: LINGER_M On: 02-MAR-2017
Modified By: MATTHEWS_D On: 06-MAR-2017
Customer: CEN-DIST
Project: SMP
Division: Division of Environmental Assessment and Restoration
District: Central District
Sampling Event: Hatchineha Canal / Reedy Below Russell

**Send Coolers To:**

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

**Send Final Report To:**

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: 03-MAR-2017
Biology Request Reviewed By: MATTHEWS_D On: 06-MAR-2017
Sampling Kit Required: YES Ship on: 09-MAR-2017
Sampling Kit Shipped: YES On: 08-MAR-2017
Sampling Kit Packed By: GREENWOO_J
Preservatives Needed: NO
Date to Receive Samples: 20-MAR-2017
Received By:

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

Comments: A: Blank
B: Hatchineha, DUP, Reedy

## Bottle Group A (Water) With 1 Samples:

Bottle Type: P-1L Number of Bottles: 1 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<br>Color (true) | Template: DEFAULT | (SM 2120 B) True Color measured at 450 nm |
| 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: 1 Preserved With: ICE

| | | |
|---|---|---|
| CHLSUITE-W | Template: DEFAULT | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry |

Bottle Type: P-500ML Number of Bottles: 1 Preserved With: HNO3

| | | |
|---|---|---|
| W-ICP<br>Calcium<br>Chromium<br>Iron<br>Magnesium<br>Nickel<br>Potassium<br>Sodium<br>Zinc | Template: | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| W-ICPMS | Template: | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects |

## Bottle Group A (Water) With 1 Samples:

Bottle Type: P-500ML Number of Bottles: 1 Preserved With: HNO3

| | | |
|---|---|---|
| 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: 1 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: 1 Preserved With: ICE-FLTR

| | | |
|---|---|---|
| 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 3 Samples:

Bottle Type: P-1L Number of Bottles: 3 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: 3 Preserved With: ICE

| | | |
|---|---|---|
| CHLSUITE-W | Template: DEFAULT | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry |

Bottle Type: P-500ML Number of Bottles: 3 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: 3 Preserved With: ICE-FLTR

| | | |
|---|---|---|
| W-PO4-F | Template: DEFAULT | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

# Log-in Checklist

RQ- 2017-03-22-50

Shipping Method: Fed Ex

Date/Time of Receipt: 3/21/17 9:45

| 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 | 4 | | ✓ | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

*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-CI-R | | |

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

**Acid Preserved Samples: pH ≤ 2.0? Yes ✓ No____ NA____ Init: Q.D.

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

**Coolers Unpacked/Checked by:** Q.D. **Date:** 3/21/17 **NCRs (Y/N)?** ____

**Event ID:** CEM-DIST-2017-03-21-01 **NCR #** ____

# Log-in Checklist

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

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

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

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

**Bottles Not Intact**

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

**Samples with Insufficient Volume for Analyses**

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

## 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:**

00293

01000

FedEx Express Package US Airbill

FedEx Tracking Number 8099 4719 5071

Form ID No. 0215

Recipie

**1 From**

Date 3-20-17

Sender's Name Terry Rivera Phone 407 897-4100

Company FDEP

Address 3319 Maguire Blvd St 232

Dept./Floor/Suite/Room

City Orlando State FL ZIP 32803

**2 Your Internal Billing Reference**

**3 To**

Recipient's Name SAMPLE RECEIVING Phone 850 245-8085

Company FLORIDA DEP/CHEMISTRY SECTION

Address 2600 BLAIRSTONE RD

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City TALLAHASSEE State FL ZIP 32399

Hold Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0122645602

8099 4719 5071

**4 Express Package Service** * To most locations. Packag For packages FedEx Expr

| Next Business Day | 2 or 3 Business Days |
|---|---|
| ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected. | ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available. |
| ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected. | ☐ FedEx 2Day — Second business afternoon.* Thursday shi will be delivered on Monday unless Saturd Delivery is selected. |
| ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available. | ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available. |

**5 Packaging** * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube

**6 Special Handling and Delivery Signature Options** Fees may apply. See the

☐ Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.
☐ Direct Signature — Someone at recipient's address may sign for delivery.
☐ Indirect Sig — If no one is availa address, someon address may sigr residential deliver

**Does this shipment contain dangerous goods?**

One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry ice, 9, UN 1845 ____

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft

**7 Payment** *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☒ Recipient ☐ Third Party ☐ Credit Card

[redacted]262

Total Packages 1 Total Weight 50 lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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fedex.com 1.800.GoFedEx 1.800.463.3339

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