



CONTRACT LAB - CHAIN OF CUSTODY

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

Project Name: SMP

Project Number: RQ-2018-10-01-51

Site Location: Bass / Drawdy / Silver

Contract/PO # FLOWERS - B3508E

Sampler Names: Mike Linger / Jeff Boman

Signature: *Mark Lin*

FIELD ID	Lab No. (Lab Use Only)	Date	Time Sampled	No. of Containers	Grab	Composite	Preservative				Matrix				Analyze For:		
							ICE	HCL	HNO3	NONE	Groundwater	Wastewater	Drinking Water	Surface Water	Escherichia Coli (ECQ)	Enterococci (ENQ)	Fecal Coliform (FC)
G4CE0147	380162SW1	10/4/18	954	1	X		X							X	X		
G2CE0078	SW2		1101	1	X		X							X	X		
G2CE0079	SW3		1048	1	X		X							X	X		
G2CE0122	✓SW4		1158	1	X		X							X	X		

Special Instructions:

Samples are ambient water and not suspected to contain chlorine

Note to samplers: For Site with E.coli only, email both custody and submittal forms to Joshua Ayers and cc John Watts.

Relinquished by:	Date	Time	Received by:	Date	Time	Comments
<i>Mark Lin</i>	10/4/18	1243	<i>John FCC</i>	10/4/18	12:41	Temp Upon Receipt: 5.6°C
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Containers Intact?
						(Y) N

Date of Request: 13-SEP-2018
 Created By: LINGER_M On: 13-SEP-2018
 Modified By: SWANSON_C On: 17-SEP-2018
 Customer: CEN-DIST
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District: Central District
 Sampling Event: Drawdy X2 / Bass / Silver

Send Coolers To:

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

Program Module Number: 1306
 Priority: 3
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 14-SEP-2018
 Biology Request Reviewed By: SWANSON_C On: 17-SEP-2018
 Sampling Kit Required: YES Ship on: 21-SEP-2018
 Sampling Kit Shipped: YES On: 18-SEP-2018
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: NO
 Date to Receive Samples: 01-OCT-2018
 Received By: SPRAGUE_K On: 07-NOV-2018

Send Final Report To:

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

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

Comments: A: Drawdy X2
 B: Bass / Silver

Bottle Group A (Water) With 2 Samples:

Bottle Type: P-1L	Number of Bottles: 2	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
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)
Fluoride		
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
Sulfate		
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
TSS		
Bottle Type: P-250ML-WI-THI	Number of Bottles: 2	Preserved With: Na thiosulfate and Ice
CD-FLR-ECQ	Template: DEFAULT	(SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Chemical Laboratory in Altamonte Springs
Escherichia Coli-Quanti-Tray		
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
Chlorophyll-a, Corrected		

Bottle Group A (Water) With 2 Samples:

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
Chlorophyll-a, Uncorrected		
Phaeophytin-a		
Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: HNO3
W-ICP	Template:	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
Calcium		
Chromium		
Iron		
Magnesium		
Nickel		
Potassium		
Sodium		
Zinc		
W-ICPMS	Template:	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
Arsenic		
Cadmium		
Copper		
Lead		
Silver		
Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
Ammonia-N		
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO2NO3-N		
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
Total-P		
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Kjeldahl Nitrogen		
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Organic Carbon		
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
O-Phosphate-P		

Bottle Group B (Water) With 2 Samples:

Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
Ammonia-N		
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO2NO3-N		
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
Total-P		
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Kjeldahl Nitrogen		
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Organic Carbon		
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
O-Phosphate-P		
Bottle Type: P-1L	Number of Bottles: 2	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		

Bottle Group B (Water) With 2 Samples:

Bottle Type: P-1L	Number of Bottles: 2	Preserved With: ICE
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
Sulfate		
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
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Bottle Type: P-250ML-WI-THI	Number of Bottles: 2	Preserved With: Na thiosulfate and Ice
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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
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		

From: [Ayala, Natalie](#)
To: [Sprague, Kara](#)
Cc: [Linger, Michael](#)
Subject: RE: October RQs
Date: Wednesday, November 7, 2018 8:54:55 AM

Kara,

Mike confirmed that our FedEx shipment was delayed because of the storm so these samples expired before they could be analyzed.

Thanks,
Natalie

From: Ayala, Natalie
Sent: Wednesday, November 07, 2018 8:42 AM
To: Sprague, Kara <Kara.Sprague@floridadep.gov>
Cc: Linger, Michael <Michael.Linger@dep.state.fl.us>
Subject: RE: October RQs

Kara,

I'm looking at our field sheets for these and they show that all samples were collected however there is a note stating that they should be entered for E. coli only. I'm assuming that this had something to do with the storm around that time and the Central Lab closure the week after these were collected. These samples were collected on Thursday and the lab was closed the following week so they may have expired before analysis. Our E. coli is sent to a local contract lab so it makes sense that these are the only results we have for those samples.

Thanks,
Natalie

From: Sprague, Kara
Sent: Tuesday, November 06, 2018 10:38 AM
To: Ayala, Natalie <Natalie.Ayala@dep.state.fl.us>
Cc: Linger, Michael <Michael.Linger@dep.state.fl.us>
Subject: FW: October RQs

Hi Natalie,

I am just trying to figure out more information about RQ-2018-10-01-51, -52, and -72. There were quite a few other analyses scheduled but from what I can tell, only the micros were sampled and dropped off to Flowers. I know usually we do PCRs for certain micros too.

Any more info would be great!

Thank you!

Kara

From: Musson, Curtis <Curtis.Musson@dep.state.fl.us>
Sent: Tuesday, November 6, 2018 10:22 AM
To: Sprague, Kara <Kara.Sprague@FloridaDEP.gov>
Cc: Linger, Michael <Michael.Linger@dep.state.fl.us>
Subject: RE: October RQs

Kara,

I am afraid I know nothing about these RQs. Mike does the scheduling for the CD ROC, he will be able to answer your question. Mike is out of the office this week. If you need assistance sooner you can contact Natalie Ayala.

Thanks,
Curtis

From: Sprague, Kara
Sent: Tuesday, November 06, 2018 10:14 AM
To: Musson, Curtis <Curtis.Musson@dep.state.fl.us>
Subject: October RQs

Hey Curtis we have some RQs that had quite a few analyses scheduled but it looks like only micros were collected and dropped off to Flowers. RQ-2018-10-01-51, -10-01-52, and 10-01-72. Just want to make sure these are in fact standalones and there isn't any accompanying data like PCR needed for these. I can get in touch with Mike if that's better, just wanted to touch base with you first.

Thanks!

Kara

Kara Sprague
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