

RQ-2019-07-29-57

Log-in Checklist

Login Station ID: #4

Shipping Method: FedEx | UPS | HD | GreyhoundDate/Time of Receipt: 08/01/19 @ 10:05

Cooler Temperature*	Samples Frozen	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Tracking # Damaged waybills only
					Present?		*Intact?		
	YES	HNO ₃	Formalin		Yes	No	Yes	No	
2.6°C				14		X			4751 8781 8660
4.1°C				10		X			4751 8781 8659
3.2°C				14		X			4751 8781 8648

* HNO₃ and Formalin

* HNO₃ and Formalin persevered samples do **NOT** have a temperature requirement. For all others, if the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX and microbiology), or if Evidence Seal is damaged. Identify the containers in the affected cooler(s) on back of this form. **DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C) without login confirmation from customer for samples requiring ice preservation. An NCR still is required.**

**Chain of Custody/ Field Sheet(s) Included? Yes ✓ No

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes No X

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

CONTAINER CHECK

**Evidence Tape on Bottles? Yes No X If yes, is it intact? Yes No

**Caps on tight? Yes ✓ No **Containers intact? Yes ✓ No

**Sufficient Sample Volume: Yes ✓ No

CHLORINE CHECK REQUIRED? (Blue dot on container)

Yes No X Init: Jylup

Chlorine detected? (One container checked per Field ID)

Yes No Init:

If "YES", list affected Field IDs and Test IDs below.

Field ID	List TestID(s) where Chlorine was Detected, an NCR is required.

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

**Acid Preserved Samples: pH ≤ 2.0? Yes ✓ No NA Init: Jylup

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

Coolers Unpacked/Checked by: Jylup Reynolds Date: 08/01/19

NCRs (Y/N)? N

Event ID: SMP-Stuart
SE-DIST-2019-08-01-01 (SMP)
 Date Received: 01-AUG-2019 10:05

NCR #

Reaves, Shawn D

From: Carbone, Irina
Sent: Monday, August 19, 2019 5:11 PM
To: Reaves, Shawn D; Brooks, Nadine
Cc: Ayres, Joshua; Steinbock, Bettina
Subject: RE: SE-DIST-2019-08-01-01 conductivity

Shawn,

Conductivity measured in the lab is 17555 umhos/cm.

Thank you!

Irina

From: Reaves, Shawn D <Shawn.Reaves@dep.state.fl.us>
Sent: Monday, August 19, 2019 03:47 PM
To: Carbone, Irina <Irina.Carbone@dep.state.fl.us>; Brooks, Nadine <Nadine.Brooks@dep.state.fl.us>
Cc: Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>; Steinbock, Bettina <Bettina.Steinbock@dep.state.fl.us>
Subject: RE: SE-DIST-2019-08-01-01 conductivity

Hi Irina,

Have you received the accurate results on the conductance for this event?

Shawn D. Reaves
DEP-Lab Support
ESI
850-245-8082
Direct: 58082

From: Carbone, Irina
Sent: Tuesday, August 6, 2019 4:43 PM
To: Reaves, Shawn D <Shawn.Reaves@dep.state.fl.us>; Brooks, Nadine <Nadine.Brooks@dep.state.fl.us>
Cc: Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>; Steinbock, Bettina <Bettina.Steinbock@dep.state.fl.us>
Subject: RE: SE-DIST-2019-08-01-01 conductivity

Shawn,

It will be several more days before the sample is analyzed for conductivity on the autotitrator – this will give us accurate results. We also have a rough estimate on the conductivity as measured with a hand-held meter: 15,050 umhos/cm.

Nadine,

Sorry, it did not register with me that you were talking about the same sample.

Thank you!

Irina

From: Reaves, Shawn D <Shawn.Reaves@dep.state.fl.us>
Sent: Tuesday, August 6, 2019 03:53 PM
To: Steinbock, Bettina <Bettina.Steinbock@dep.state.fl.us>; Carbone, Irina <Irina.Carbone@dep.state.fl.us>
Cc: Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>
Subject: FW: SE-DIST-2019-08-01-01 conductivity

Bettina/Irina,

Were you able to get any information on conductivity 180,122 umhos/cm?

Shawn D. Reaves
DEP-Lab Support
ESI
850-245-8082
Direct: 58082

From: Brooks, Nadine
Sent: Tuesday, August 6, 2019 12:54 PM
To: Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>
Cc: Carbone, Irina <Irina.Carbone@dep.state.fl.us>; Healy, Elliott <Elliott.Healy@dep.state.fl.us>; Thompson, Michael <Michael.Thompson@dep.state.fl.us>; Reaves, Shawn D <Shawn.Reaves@dep.state.fl.us>; Bowden, Magan <Magan.Bowden@dep.state.fl.us>
Subject: RE: SE-DIST-2019-08-01-01 conductivity

Josh,

Any luck with the info on this sample 2107802, it still has a conductivity of 180,122 umhos/cm.

Kind regards
n.



Nadine Brooks, PhD
Chemist Specialist
Division of Environmental Assessment and Restoration -
Chemistry Program
Florida Department of Environmental Protection
2600 Blair Stone Road - Tallahassee, Florida 32399-2400
850-245-8226 (office)
Nadine.Brooks@dep.state.fl.us

From: Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>
Sent: Thursday, August 1, 2019 4:42 PM
To: Brooks, Nadine <Nadine.Brooks@dep.state.fl.us>
Cc: Carbone, Irina <Irina.Carbone@dep.state.fl.us>; Healy, Elliott <Elliott.Healy@dep.state.fl.us>; Thompson, Michael <Michael.Thompson@dep.state.fl.us>; Reaves, Shawn D <Shawn.Reaves@dep.state.fl.us>; Bowden, Magan

<Magan.Bowden@dep.state.fl.us>

Subject: RE: SE-DIST-2019-08-01-01 conductivity

1055 ppt!! Well if sea water is normally 32 ppt, than this must be a block of "SUPER" salt. LOL

Shawn – Please contact the customer. I guess it should be 10.55 ppt or 18012 umhos/cm.



JOSHUA AYRES

Environmental Specialist III

DEP Laboratories

Voice: 850.245.8206

Joshua.Ayres@dep.state.fl.us

From: Brooks, Nadine <Nadine.Brooks@dep.state.fl.us>

Sent: Thursday, August 1, 2019 15:52

To: Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>

Cc: Carbone, Irina <Irina.Carbone@dep.state.fl.us>; Healy, Elliott <Elliott.Healy@dep.state.fl.us>; Thompson, Michael <Michael.Thompson@dep.state.fl.us>

Subject: SE-DIST-2019-08-01-01 conductivity

Hi Josh,

Sample 2107802 (metals) / 2107780 (NUTS) from SE-DIST-2019-08-01-01 has a field conductivity of 180122 umhos/cm, and a salinity of 1055 (both logged in correctly). This seems a little high to us, could you contact the customer and confirm?

Kind regards
n.



Nadine Brooks, PhD

Chemist Specialist

Division of Environmental Assessment and Restoration -

Chemistry Program

Florida Department of Environmental Protection

2600 Blair Stone Road - Tallahassee, Florida 32399-2400

850-245-8226 (office)

Nadine.Brooks@dep.state.fl.us

Log-in Checklist

Samples with Incorrect pH Preservation

Field ID	Bottle Test ID(s)	pH	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

Additional Comments:

Infrared Thermometer ID:	REC_04_2018 EXP:04/29/2020
pH Test Strips 0 – 6 Lot #	213316AV EXP:05/15/2020
pH Paper 0 – 3 Lot #	
pH Paper 0 – 13 Lot #	215517 EXP: 06/01/2020
Chlorine Test Strips Lot #	8261 EXP: 07/30/2021

ENCORE SAMPLES

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

Were Encore samples received? Yes _____ No X

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes _____ If No _____

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: _____

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: SE-DIST

Project ID: SMP

Requester: Drew Liddick

Field Report Prepared By: Kristene Taylor

Collected By: Drew Liddick

Sampling Agency: 21FLWPB

Loc	Location: South Fork SLR @ Halpatiokee Trail	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/31/19 Time 10:15	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Fiel	WIN ID/Field ID:	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 3.19	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	B
WIN	 G2SE0015	Temp (C) 29.1	pH 7.17	Sample Depth 0.3	Sp. Conductance (umho/cm) 520	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.25	Comments	
Loc	Location: Roebuck Creek @ Locks	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/31/19 Time 10:45	Eastern Central	Composite end Date Time	Bottle Group(s)
Fiel	WIN ID/Field ID:	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 3.61	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	C
WIN	 G2SE0029	Temp (C) 26.6	pH 7.44	Sample Depth 0.1	Sp. Conductance (umho/cm) 611	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.29	Comments	
Loc	Location: Roebuck Creek @ mouth	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/31/19 Time 11:05	Eastern Central	Composite end Date Time	Bottle Group(s)
Fiel	WIN ID/Field ID:	Matrix (type, e.g., Salt, Fresh, etc) Marine	Diss. Oxygen 4.81	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	C
WIN	 G2SE0005	Temp (C) 30.9	pH 7.61	Sample Depth 0.3	Sp. Conductance (umho/cm) 6745	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 3.65	Comments	
Loc	Location: Willoughby Creek	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/31/19 Time 12:20	Eastern Central	Composite end Date Time	Bottle Group(s)
Fiel	WIN ID/Field ID:	Matrix (type, e.g., Salt, Fresh, etc) Marine	Diss. Oxygen 0.25	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
WIN	 G2SE0034	Temp (C) 30.9	pH 7.33	Sample Depth 0.3	Sp. Conductance (umho/cm) 46463	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 29.98	Comments	

Relinquished By: FDEP Kristene Taylor	Date/Time 07/31/19/14:34	Shipping Method Fedex	Number of Coolers Shipped: 3	Received By: Tyler Reynolds	Date/Time 08/01/19@10:05
--	-----------------------------	--------------------------	---------------------------------	--------------------------------	-----------------------------

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

Group: B	Bottle Type: W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: ALKALINITY TURBIDITY W-BR-IC W-F W-TSS	P-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 2	Preservative: HNO3	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 2	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 2	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	2
Group: D	Bottle Type: ALKALINITY TURBIDITY W-BR-IC W-F W-TSS	P-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: D	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2

Group: D	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	2
	W-ICP						
	W-ICPMS						
Group: D	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: D	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						
Group: E	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: E	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: E	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: E	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F						
Group: F	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY						
	TURBIDITY						

Group: F Bottle Type: P-1L # of Bottles: 1 Preservative: ICE Enter Number of Bottles Sent to Lab _____

W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Group: F Bottle Type: BP-1L # of Bottles: 1 Preservative: ICE Enter Number of Bottles Sent to Lab _____

CHLSUITE-W

Group: F Bottle Type: P-500ML # of Bottles: 1 Preservative: HNO3 Enter Number of Bottles Sent to Lab _____

W-ICP
W-ICPMS

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

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

Group: F Bottle Type: P-125ML # of Bottles: 1 Preservative: FILTER-ICE Enter Number of Bottles Sent to Lab _____

W-PO4-F

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: SE-DIST

Requester: Drew Liddick

Field Report Prepared By: Kristene Taylor

Project ID: SMP

Collected By: Drew Liddick

Sampling Agency: 21FLWFB

L F V	Location: Danforth Creek @ Martin Hwy		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/31/19 Time 12:55		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) (See pg 2) E	
	WIN ID/Field ID:		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 2.63		☒ mg/L Total Res. Chlorine ☐ % sat (mg/L)			
	Latitude G2SE0018 ☐ dd Longitude ☐ dms		Temp (C) 27.6		pH 8.06		Sample Depth 0.1 ☐ ft ☒ m			Sp. Conductance (umho/cm) 725
	☐ dd ☐ dms		Salinity (ppt) 0.34		Comments					
L F V	Location: Bessey Creek @ Murphy		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/31/19 Time 13:20		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) D	
	WIN ID/Field ID:		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 1.72		☒ mg/L Total Res. Chlorine ☐ % sat (mg/L)			
	Latitude G2SE0017 ☐ dd Longitude ☐ dms		Temp (C) 30.0		pH 7.47		Sample Depth 0.3 ☐ ft ☒ m			Sp. Conductance (umho/cm) 7784
	☐ dd ☐ dms		Salinity (ppt) 4.30		Comments					
L F V	Location: Bessey Creek @ Murphy		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/31/19 Time 13:25		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) F	
	Field ID G2SE0017-Dup		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L Total Res. Chlorine ☐ % sat (mg/L)			
	Latitude ☐ dd Longitude ☐ dms		Temp (C)		pH		Sample Depth 0.3 ☐ ft ☒ m			Sp. Conductance (umho/cm)
	☐ dd ☐ dms		Salinity (ppt)		Comments					
L F V	Location: Bessey Creek @ Mouth		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 07/31/19 Time 13:50		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) D	
	WIN ID/Field ID:		Matrix (type, e.g., Salt, Fresh, etc) Marine		Diss. Oxygen 6.93		☒ mg/L Total Res. Chlorine ☐ % sat (mg/L)			
	Latitude G2SE0048 ☐ dd Longitude ☐ dms		Temp (C) 33.2		pH 7.71		Sample Depth 0.3 ☐ ft ☒ m			Sp. Conductance (umho/cm) 180122
	☐ dd ☐ dms		Salinity (ppt) 1055		Comments					

Relinquished By: Kristene Taylor	Date/Time: 07/31/19 14:34	Shipping Method: FedEx	Number of Coolers Shipped: 3	Received By: Jylus Reynolds	Date/Time: 08/01/19 @ 10:05
----------------------------------	---------------------------	------------------------	------------------------------	-----------------------------	-----------------------------

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

Date of Request: 15-JUL-2019
 Created By: LIDDICK_D On: 15-JUL-2019
 Modified By: WATTS_J On: 17-JUL-2019
 Customer: SE-DIST
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District: Southeast District
 Sampling Event: SMP-Stuart

Send Coolers To:

Phone: (772) 448-5885
 FL Dept. of Environmental Protection
 2199 South Rock Road
 Fort Pierce, FL 34945
 Attn: Drew Liddick

Program Module Number:

Priority: 3

Event Status: S

Criminal Investigation: NO

Chemistry Request Reviewed By: WATTS_J On: 17-JUL-2019

Biology Request Reviewed By: JASROTIA_P On: 16-JUL-2019

Sampling Kit Required: YES Ship on: 19-JUL-2019

Sampling Kit Shipped: YES On: 18-JUL-2019

Sampling Kit Packed By: REYNOLDS_T

Preservatives Needed: NO

Date to Receive Samples: 29-JUL-2019

Received By:

Send Final Report To:

FL Dept. of Environmental Protection
 2199 South Rock Road
 Fort Pierce, FL 34945
 Attn: Drew Liddick

Report Type: Final Only

FTP Data: NO

QC Report: YES

Date Log: NO

Authorization Log: NO

Comments: Sampler Comments:
 3208B Bottle Group A: G2SE0034
 3210D Bottle Group B: G2SE0015
 3210E Bottle Group C: G2SE0005;G2SE0029
 3211 Bottle Group D: G2SE0017;G2SE0048
 3215 Bottle Group E: G2SE0018
 Bottle Group F: DUP

**Take DUP @ G2SE0018

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 CaCO ₃ /L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-BR-IC	Template: DEFAULT	(EPA 300.0) Bromide in aqueous matrices
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: HNO ₃
W-ICP	Template: S-METALS	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
Iron		
Manganese		
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
Aluminum		
Antimony		
Arsenic		
Cadmium		

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

Chromium
Copper
Lead
Nickel
Selenium
Silver
Thallium

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: 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 Group B (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	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 using a maximum of 250 mL of sample

Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

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: 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 Group C (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
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-BR-IC	Template: DEFAULT	(EPA 300.0) Bromide in aqueous matrices
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TSS	Template: DEFAULT	(SM 2540 D-97) 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: P-500ML	Number of Bottles: 2	Preserved With: HNO3
W-ICP	Template: S-METALS	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Iron
Manganese
Zinc

Bottle Group C (Water) With 2 Samples:

Bottle Type: P-500ML	Number of Bottles: 2	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

Aluminum
Antimony
Arsenic
Cadmium
Chromium
Copper
Lead
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-00) 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 Group D (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
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-BR-IC	Template: DEFAULT	(EPA 300.0) Bromide in aqueous matrices
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TSS	Template: DEFAULT	(SM 2540 D-97) 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: P-500ML	Number of Bottles: 2	Preserved With: HNO3
W-ICP	Template: S-METALS	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Iron
Manganese
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
---------	-----------	---

Aluminum
Antimony
Arsenic
Cadmium
Chromium
Copper
Lead
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-00) 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 Group E (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 CaCO ₃ /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-SO ₄ -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 using a maximum of 250 mL of sample
Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: ICE And H ₂ SO ₄
W-NH ₃	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO ₂ NO ₃	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: FILTER-ICE
W-PO ₄ -F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group F (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 CaCO ₃ /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-SO ₄ -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 using a maximum of 250 mL of sample
Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: HNO ₃
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		
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
*Boron		
Aluminum		
Antimony		
Arsenic		
Cadmium		
Chromium		
Copper		
Lead		
Nickel		
Selenium		

Bottle Group F (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

Silver

Thallium

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

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

