Log-in Checklist

RQ-20180101-29

Shipping Method: Fedex

Date/Time of Receipt: 1-16-18/1145

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	
		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-Cl-R		

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

**Acid Preserved Samples: pH ≤ 2.0? Yes____ No____ NA ✓ Init: SR ✓

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

Coolers Unpacked/Checked by: SR **Date:** 1-16-18 **NCRs (Y/N)?** Y

Event ID: ENDIST-20180116-01 **NCR #** 6863

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:

Request Number: RQ-2018-01-01-29

Tilden x4 / Mirror / Felter

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: CEN-DIST

Project ID: SMP

Requester: Michael Linger

Collected By: Leif Boman

Field Report Prepared By: Katie Williams

Sampling Agency: 21FLEN

Location: Lake Tilden @ 140m NW of Center (2875B)
Field ID / STORET #: G1CE0087 (Field ID ↑ STORET ↓) — **RQ-2017-01-01-29** **Date: 1/10/2018** — G1CE0087
Latitude ☐dd ☐dms | Longitude ☐dd ☐dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 1/10/18 Time 1108 | ☐ Eastern ☐ Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc): fresh | Diss. Oxygen 9.42 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 14.71 | pH 7.02 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 205

Salinity (ppt) 0.10 | Comments

Location: Lake Tilden @ 165m NE of Center (2875B)
Field ID / STORET: G1CE0088 (Field ID ↑ STORET ↓) — **RQ-2017-01-01-29** **Date: 1/10/2018** — G1CE0088
Latitude ☐dd ☐dms | Longitude ☐dd ☐dms

☑ Comp ☑ Grab | Collection (comp begin or grab) Date 1/10/18 Time 1120 | ☐ Eastern ☐ Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): fresh | Diss. Oxygen 9.25 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 14.23 | pH 7.00 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 206

Salinity (ppt) 0.10 | Comments

Location: Lake Tilden @ 150m SE of Center (2875B)
Field ID / STORET #: G1CE0089 (Field ID ↑ STORET ↓) — **RQ-2017-01-01-29** **Date: 1/10/2018** — G1CE0089
Latitude ☐dd ☐dms | Longitude ☐dd ☐dms

☑ Comp ☑ Grab | Collection (comp begin or grab) Date 1/10/18 Time 1130 | ☐ Eastern ☐ Central | Composite end Date Time | Bottle Group(s): A

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

Temp (C) 14.30 | pH 6.95 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 207

Salinity (ppt) 0.10 | Comments

Location: Lake Tilden @ 225m S of Center (2875B)
Field ID / STORET #: G1CE0090 (Field ID ↑ STORET ↓) — **RQ-2017-01-01-29** **Date: 1/10/2018** — G1CE0090
Latitude ☐dd ☐dms | Longitude ☐dd ☐dms

☑ Comp ☑ Grab | Collection (comp begin or grab) Date 1/10/18 Time 1140 | ☐ Eastern ☐ Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): fresh | Diss. Oxygen 8.75 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 15.16 | pH 6.97 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 205

Salinity (ppt) 0.10 | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Katie Williams	1/10/18 1600	FedEx	1	[signature]	1-16-18/1145

Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type:	P-250ML-WI-THI	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4 to Flowers Lab
	CD-FLR-ECQ						
Group: A	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	4
	W-ICP W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	4
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 4	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	4
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 2	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:	P-250ML-WI-THI	# of Bottles: 2	Preservative:	ICE	**Enter Number of Bottles Sent to Lab** _____
	CD-FLR-ECQ					
Group: B	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	**Enter Number of Bottles Sent to Lab** _____
	CHLSUITE-W					
Group: B	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H_2SO_4	**Enter Number of Bottles Sent to Lab** _____
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: B	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	**Enter Number of Bottles Sent to Lab** _____
	W-PO4-F					

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: Michael.Linger@dep.state.fl.us
Telephone Number: (407) 897-4100

Project Name: SMP
Project Number: RQ-2018-01-01-29
Site Location: Lake Tilden

Contract/PO # Flowers Lab - B16975
Sampler Names: Katie Williams
Signature: KWilliams

							Preservative				Matrix					Analyze For:		
FIELD ID	Lab No. (Lab Use Only)	Date	Time Sampled	No. of Containers	Grab	Composite	ICE	HCL	HNO3	NONE	Groundwater	Wastewater	Drinking Water	Surface Water	Escherichia Coli (ECQ)	Enterococci (ENQ)	Fecal Coliform (FC)	
GICE0087		1/10/18	1106	1	X		X							X	X			
GICE0088		1/10/18	1120	1	X		X							X	X			
GICE0089		1/10/18	1130	1	X		X							X	X			
GICE0090		1/10/18	1140	1	X		X							X	X			

Special Instructions:
Samples are ambient water and not suspected to contain chlorine

Relinquished by:	Date	Time	Received by:	Date	Time	Comments
KWilliams	1/10/18	1300	MM	1/10	1320	Temp Upon Receipt: -3°C
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Containers Intact? (Y) N

RQ-2018-01-01-29

Date of Request: 12-DEC-2017
Created By: LINGER_M On: 12-DEC-2017
Modified By: SWANSON_C On: 14-DEC-2017
Customer: CEN-DIST
Project: SMP
Division: Division of Environmental Assessment and Restoration
District: Central District
Sampling Event: Tilden x4 / Mirror / Felter

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: R
Criminal Investigation: NO
Chemistry Request Reviewed By: WATTS_J On: 13-DEC-2017
Biology Request Reviewed By: SWANSON_C On: 14-DEC-2017
Sampling Kit Required: YES Ship on: 20-DEC-2017
Sampling Kit Shipped: YES On: 21-DEC-2017
Sampling Kit Packed By: REAVES_S
Preservatives Needed: NO
Date to Receive Samples: 01-JAN-2018
Received By: REYNOLDS_T On: 10-JAN-2018

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

Comments:
A: Tilden
B: Mirror / Felter

Bottle Group A (Water) With 4 Samples:

Bottle Type: P-1L Number of Bottles: 4 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 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: Number of Bottles: 4 Preserved With: ICE

CD-FLR-ECQ	Template: DEFAULT	(SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by FlowersOverflow Laboratory for Central District

Bottle Type: BP-1L Number of Bottles: 4 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: 4 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

Bottle Group A (Water) With 4 Samples:

Bottle Type: P-500ML Number of Bottles: 4 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
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: 4 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: 4 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 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
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 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-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: Number of Bottles: 2 Preserved With: ICE

CD-FLR-ECQ	Template: DEFAULT	(SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by FlowersOverflow Laboratory for Central District

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

Ayres, Joshua

From: Ayala, Natalie
Sent: Tuesday, January 16, 2018 10:02 AM
To: Watts, John; Ayres, Joshua
Cc: Warren, Kalina; Linger, Michael; Musson, Curtis; Williams, Kathryn M.
Subject: RE: Tilden RQ/tracking

Note: this RQ included E. coli samples that have been analyzed by our contract laboratory. These results will be forwarded to your lab eventually – the only analyses that should be deleted are those that would have been analyzed by our DEP Central lab.

Thanks,
Natalie

-----Original Message-----
From: labinfo@flowerslabs.com [mailto:labinfo@flowerslabs.com]
Sent: Friday, January 12, 2018 4:26 PM
To: Ayala, Natalie <Natalie.Ayala@dep.state.fl.us>; DEP-Overflowmicro <DEP-Overflowmicro@dep.state.fl.us>
Subject: Your FCL report is ready.

January 12, 2018

Thank you for doing business with Flowers Chemical Laboratories! Results for your samples sampled on January 10, 2018 with Project Number RQ-2018-01-01-29 is available at
http://www.flowerslabs.com/Apps/WebObjects/FCLSite.woa/wa/arpt?ar=DSMbbzc6Z7p8

Please note that Adobe Acrobat Reader is required to view this report. If you don't already have this program, it may be downloaded at http://www.adobe.com/products/acrobat/readstep2.html.

From: Ayala, Natalie
Sent: Tuesday, January 16, 2018 9:42 AM
To: Watts, John <John.Watts@dep.state.fl.us>; Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>
Cc: Warren, Kalina <Kalina.Warren@dep.state.fl.us>; Linger, Michael <Michael.Linger@dep.state.fl.us>; Musson, Curtis <Curtis.Musson@dep.state.fl.us>; Williams, Kathryn M. <Kathryn.M.Williams@dep.state.fl.us>
Subject: FW: Tilden RQ/tracking

Hello,

We just noticed that our cooler shipped on January 10, 2018 has not made it to your lab yet. The cooler was dropped off at Fed Ex for overnight shipping but there must have been some delay with Fed Ex after that point. We will have to resample – the samples can be disposed of upon receipt.

- FedEx tracking number: 8115 9551 2490
- RQ-2018-01-01-29
- Site name: Lake Tilden (4 sampling kits)

Thank you,
Natalie Ayala

Environmental Specialist III
Division of Environmental Assessment and Restoration
3319 Maguire Blvd Suite 232
Orlando, FL 32803
Office: 407-897-4178

From: Williams, Kathryn M.
Sent: Tuesday, January 16, 2018 9:15 AM
To: Ayala, Natalie <Natalie.Ayala@dep.state.fl.us>
Subject: Tilden RQ/tracking

FedEx tracking number: 8115 9551 2490

RQ-2018-01-01-29

Kathryn Williams
Environmental Specialist II
Watershed Management and Monitoring
Florida Dept. of Environmental Protection
Tel: (407) 897-4174