Log-in Checklist

RQ- 2019-02-25-65 Login Station ID: #5

Shipping Method: FedEx | UPS | HD | Greyhound Date/Time of Receipt: 2/28/19 @ 12:10

Cooler Temperature*	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Tracking # (fill out only if waybill copy is damaged)
				Present?		*Intact?		
	HNO_3	Formalin		Yes	No	Yes	No	
0.6			12		✓			8103 9283 3793
1.3			8		✓			8119 3904 0924

* 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), or if Evidence Seal is damaged. Identify the containers in the affected cooler(s) on back of this form.

****Note:** If "No" is checked below, fill out the back of this form (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_____ Date 2.28.19

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 REQUIRED? (Blue dot on container) Yes_____ No ✓ Init: MM

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		
W-PFAS-MS					

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

****Acid Preserved Samples: pH ≤ 2.0?** Yes ✓ No_____ NA_____ Init: MM

****W-1-4-DIOX (Green dot on container) preserved to pH < 4.0?** Yes_____ No_____ NA ✓ Init: MM

Coolers Unpacked/Checked by: KK **Date:** 2/28/19 **NCRs (Y/N)?** N

Event ID: Bird Lk x2 / Faulk Canal CEN-DIST-2019-02-28-01 (SMP) Date Received: 28-FEB-2019 12:10 **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

Infrared Thermometer ID:		REC_05-2018
pH Paper 0.0 – 3.0	**Lot #**	
pH Paper 0 – 13	**Lot #**	222516EXP:9/15/19
Chlorine Test Strips	**Lot #**	091417V EXP:9/2021

Additional Comments:

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 within48 hours? Yes_____ No_____

Date and time samples preserved: _____

Request Number: RQ-2019-02-25-65

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

~~Sawgrass / 3 Forks~~ Bird Lk x2 / Faulk Canal

Customer: CEN-DIST

Project ID: SMP

Requester: Michael Linger

Collected By: Mike Linger / Mike Drennan

Field Report Prepared By: Mike Linger

Sampling Agency: FDEP CE-ROC

Location

Field I: **WIN ID / Field ID →** Falk Canal @ 50m upstream of Fiske Blvd

WIN/S

Latitud ☐ dms ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 2/27/19 Time 1112 Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 4.25 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 23.3 | pH 6.55 | Sample Depth 0.2 ☐ ft ☑ m | Sp. Conductance (umho/cm) 1239

Salinity (ppt) | Comments: ★ E coli sent to contract lab - ERD

Location

Field: **WIN ID / Field ID →** Bird Lake Ditch @ E side of S Fork Rd

WIN/S

Latitud ☐ dms ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 2/27/19 Time 1142 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 3.03 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 21.5 | pH 7.19 | Sample Depth 0.2 ☐ ft ☑ m | Sp. Conductance (umho/cm) 890

Salinity (ppt) | Comments: E coli sent to contract lab - ERD

Location

Field ID: **WIN ID / Field ID →** Bird Lake Ditches @ 75m East of FL 407

WIN/STORE

Latitude ☐ dms ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 2/27/19 Time 1208 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 2.19 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 21.8 | pH 7.07 | Sample Depth 0.2 ☐ ft ☑ m | Sp. Conductance (umho/cm) 879

Salinity (ppt) | Comments: E coli sent to contract lab - ERD

Location

Field: **WIN ID / Field ID →** SJR @ Power line crossing

WIN

Latitu ☐ dms ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 2/27/19 Time 927 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 7.27 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 20.5 | pH 7.14 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 1158

Salinity (ppt) | Comments: E coli sent to contract lab - ERD

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
MKL	2/27/19 1600	Fed Ex	2	KR	2-28-19 @ 12:10

★ Please add 2 additional Bottle Group A to this RQ (5 total)

Group: A	Bottle Type:	P-1L	# of Bottles: ~~2~~ 5	Preservative:	ICE	**Enter Number of Bottles Sent to Lab** 5
	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: ~~2~~ 5	Preservative:	ICE	**Enter Number of Bottles Sent to Lab** 4 sent to contract lab - ERI
	CD-ERD-EC					
Group: A	Bottle Type:	BP-1L	# of Bottles: ~~2~~ 5	Preservative:	ICE	**Enter Number of Bottles Sent to Lab** 5
	CHLSUITE-W					
Group: A	Bottle Type:	P-500ML	# of Bottles: ~~2~~ 5	Preservative:	ICE And H2SO4	**Enter Number of Bottles Sent to Lab** 5
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type:	P-125ML	# of Bottles: ~~2~~ 5	Preservative:	FILTER-ICE	**Enter Number of Bottles Sent to Lab** 5
	W-PO4-F					

H2SO4
LOT# SA8197090
EXP: 07/16/2019

* Please add 2 additional Bottle Group A to this RQ (5 total)
MKL

Request Numbe RQ-2019-02-25-65

Florida Department of Environmental Protection

Central Laboratory Submittal Form

last revised Jan 25, 2018

~~Sawgrass / 3 Forks~~ Bird Lk x2 / Faulk Canal

Customer: CEN-DIST

Project ID: SMP

Requester: Michael Linger

Collected By: Mike Linger / Mike Drennan

Field Report Prepared By: Mike Linger

Sampling Agency: FDEP CE-ROC

Location / Field ID / WIN/STOF	**WIN ID / Field ID →** Florence Lake @ Center — G3CE0012
Latitude	☐ dms
	☐ dd ☐ dms
☐ Comp ☑ Grab	Collection (comp begin or grab) Date 2/27/19 Time 1037 (Eastern) Central
Composite end	Date Time
Matrix (type, e.g., Salt, Fresh, etc)	(Fresh circled)
Diss. Oxygen	8.17 ☑ mg/L ☐ % sat
Total Res. Chlorine (mg/L)	
Temp (C)	21.2
pH	7.29
Sample Depth	0.3 ☐ ft ☑ m
Sp. Conductance (umho/cm)	1879
Salinity (ppt)	
Comments	E coli not collected
Bottle Group(s) (See pg 2)	A

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

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

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

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
MKL	2/27/19 1600	FedEx	2	KK	2-28-19 @ 12:10

☆ Please add 2 additional Bottle Group A to this RQ (5 total)

ENVIRONMENTAL RESEARCH & DESIGN, INC. --- CHAIN-OF-CUSTODY RECORD

3419 Trentwood Blvd., Suite 102 – Belle Isle (Orlando), FL 32812-4864 --- Phone: (407) 855-9465 --- Fax: (407) 826-0419

Client Name: FDEP

Address: 3319 Maguire Blvd

Project Contact: Michael Linger

Project Contact Phone: (407) 897-4100

Project Name: ~~SMP~~ RQ-2019-02-25-65 Project #: SMP

Containers Accepted By: Andrew

Samples Collected By: Mike Linger

Sample I.D.	*Matrix	**IPC	ERD Sample I.D. No.	Date Collected	Time Collected	Total Number of Bottles	2-Liter Plastic	60 mL Plastic (filtered, F)	60 mL Plastic (Filtered/ Preserved with H_2SO_4, FP)	60 mL Plastic (Unfiltered) (Preserved with H_2SO_4, P)	500 mL Plastic	Glass (Preserved with HCl)	Metals: UF	250 mL Plastic (Preserved with HNO_3) F	Whirlpak	Other	Other
G3CE0016	S	A	19-0463	2/27/19	1112	1										12a	
G3CE0013	S	A	19-0464		1142	1										12a	
G3CE0014	S	A	19-0465		1208	1										12a	
G3CE0015	S	A	19-0466		927	1										12a	
				DISPOSAL DATE:													

ANALYSIS CODE

*MATRIX: SW = Stormwater SP = Seepage S = Surface Water BF = Baseflow GW = Groundwater BP = Bulk Precipitation G = Grab C = Composite

**ICE PRESERVATION CODES (IPC): A = Transported in ice, ice present when received B = Transported in ice, ice not present when received C = Not transported in ice

CUSTODY TRANSFERS

	RELINQUISHED BY	RECEIVED BY	DATE	TIME
1			2/27/19	13:00
2.				

Method of Shipment:

Delivered Directly to Lab: X

Shipped By FedEx: _____
UPS: _____
Other: _____

Received in Cooler: ✓Y ___N
Cooler Temp. verification: 6°C
Temp. Blank Provided ___Y ✓N

Temperature Blank Cooler #1: ___°C
Temperature Blank Cooler #2: ___°C
Temperature Blank Cooler #3: ___°C

pH Checked in Laboratory (< 2 s.u.): ___Y ✓N
pH Lot #: _____

Sulfuric Acid: Lot #_____

Chlorine Check (< 0.1 mg/l): ___Y ✓N

COMMENTS:

RQ-2019-02-25-65

Date of Request: 26-FEB-2019
Created By: LINGER_M On: 26-FEB-2019
Modified By: JASROTIA_P On: 27-FEB-2019
Customer: CEN-DIST
Project: SMP
Division:
District: Central District
Sampling Event: Bird Lk x2 / Faulk Canal

Send Coolers To:

Phone: 407-894-4180
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: A
Criminal Investigation: NO
Chemistry Request Reviewed By: WATTS_J On: 27-FEB-2019
Biology Request Reviewed By: JASROTIA_P On: 27-FEB-2019
Sampling Kit Required: NO Ship on:
Sampling Kit Shipped:
Sampling Kit Packed By:
Preservatives Needed: NO
Date to Receive Samples: 26-FEB-2019
Received By:

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

Comments:

Bottle Group A (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 using a maximum of 250 mL of sample

Bottle Type: P-250ML-WI-THI Number of Bottles: 3 Preserved With: ICE

CD-ERD-EC	Template: DEFAULT	(EPA 1603) Escherichia coli by membrane filter method by ERD Laboratory

Bottle Type: BP-1L Number of Bottles: 3 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: 3 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
Barium		
Calcium		
Iron		
Magnesium		
Potassium		
Sodium		
Zinc		

Bottle Type: P-500ML Number of Bottles: 3 Preserved With: ICE And H2SO4

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

Bottle Group A (Water) With 3 Samples:

Bottle Type: P-500ML		Number of Bottles: 3	Preserved With: ICE And H2SO4
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: FILTER-ICE
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0)	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

RQ-2019-02-25-65

Date of Request: 26-FEB-2019
Created By: LINGER_M On: 26-FEB-2019
Modified By: LINGER_M On: 26-FEB-2019
Customer: CEN-DIST
Project: SMP
Division:
District: Central District
Sampling Event: Bird Lk x2 / Faulk Canal

Send Coolers To:

Phone: 407-894-4180
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: P
Criminal Investigation: NO
Chemistry Request Reviewed By:
Biology Request Reviewed By:
Sampling Kit Required: NO Ship on:
Sampling Kit Shipped:
Sampling Kit Packed By:
Preservatives Needed: NO
Date to Receive Samples: 26-FEB-2019
Received By:

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

Comments: ✱ Please add 2 additional Bottle Group A to this RQ (5 total)

Bottle Group A (Water) With 3 Samples:

Bottle Type:		Number of Bottles:	Preserved With:
ALKALINITY	Template: DEFAULT		(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
Total Alkalinity			
CD-ERD-EC	Template: DEFAULT		(EPA 1603) Escherichia coli by membrane filter method by ERD Laboratory
Escherichia coli-Membrane Filter			
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			
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-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-NO2NO3	Template: DEFAULT		(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO2NO3-N			

Bottle Group A (Water) With 3 Samples:

Bottle Type:		Number of Bottles:	Preserved With:
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			
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0)	Total Phosphorus in aqueous matrices as mg P/L
Total-P			
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-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			
W-TSS	Template: DEFAULT	(SM 2540 D-97)	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
TSS			