



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Swamp Creek upstream of Railroad

Date: 03/20/2019

WIN/ Field ID: G1WA0052

WBID: 427

Latitude: 30.66345129

(mm/dd/yyyy)

County: Gadsden

ORG ID: 21FLWQA

Longitude: -84.44797854

(Decimal Degrees)

Receiving Body of Water: Attapulgis Creek

RQ- 2019-03-18-20

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
Curtis Musson						X	X	X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole			
Jason Storrs						X	X	X	X	X	☐ Carboy	☒ Syringe				
											☐ Dipper	☐ Other				
											Depth Measured with <u>Meter Stick</u>					
											Equipment ID					
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded												Meter ID# <u>Bio #2</u>		Matrix: <u>Fresh</u> / Marine / DI		
Photos: <u>Yes</u> / No		Flow: No Flow / Intestinal / <u>Flowing</u> / NA				Tide: Rising/ Falling/ Slack/ <u>NA</u>				Tide Times: High / Low						
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)						
EST	12:28	1.0	0.3	0.6	9.80	94.5	6.32	0.04	84	13.22						
CEN																
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:																
SBIO ID Numbers:		SBIO-ID:		HA-ID:		RPS-ID:		Macrophyte-ID:		LIMS#: <u>2071517</u>						
Parameter Suite	Parameter Methods					Preservation		Lot#	Expiration	pH Check						
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP					☒ Ice	☒ H2SO4	<u>8274050</u>	<u>10/1/19</u>	☒ <2						
Metals	☒ W-ICPMS ☒ W-ICP					☒ Ice	☒ HNO3	<u>8080070</u>	<u>3/2/19</u>	☒ <2						
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter					☒ Ice		<u>10827054</u>								
Chlorophyll	☒ CHLSUITE-W					☒ Ice										
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS					☒ Ice										
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY					☐ Ice										
Macroinvertebrates	☐ MI-FW-QLDC					☐ Formalin										
Periphyton	☐ ALGAE-ID					☐ Ice										
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci					☒ Ice										
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2					☐ Ice										
	☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD					☐ Ice										
Tracers	☐ W-E8321-DI ☐ W-E8321-MS					☐ Ice										
Pesticides	☒ W-PSNP-TQ ☒ W-CT-CL-R ☒ W-E8321-DI					☒ Ice										
	☒ W-PCL-SQ-R ☒ WE8321-MS ☒ W-CARB-AA					☒ Ice										
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C					☐ Ice										
Notes: Nutrients Metals E. Coli Pesticides Group B																
Signature: <u>[Signature]</u>								Date: <u>3/20/2019</u>								
LIMS EVENT ID: <u>WAB-SECT-2019-03-20-01</u>								WIN Import ID: <u>AWM41519</u>								
Enter Field Parameters, Verify Station ID In LIMS DMT: <u>3/26/19</u>								QC Station ID, Field Parameters In LIMS DMT: <u>AWM41519</u>								
Scan/Save Field Sheets								Migrate Data to WIN: <u>[Signature]</u>								
								Verify Data In WIN: <u>[Signature]</u>								

WIN ID / FILED ID



G1WA0052

Location



Swamp Creek upstream of Railroad

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter ID: Bio #2

RQ- 2019-03-18-20

Project: Smp

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	3/20/19	704	19.64	9.165	9.16	100.0	55	—	Ⓟ/F	Ⓟ/F
ICV	Curtis Musson	3/20/19	706	19.65	9.147	9.15	99.9	55	—	Ⓟ/F	L/F
CCV	Jason Stearns	3/20/19	1415	19.15	9.239	9.27	100.5	55.3	—	Ⓟ/F	Ⓟ/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	3/20/19	709	80221A	03/20/19	500	500	Ⓟ/F	Ⓟ/F
ICV	Curtis Musson	3/20/19	710	180221A	03/20/19	500	499	Ⓟ/F	Ⓟ/F
CCV	Jason Stearns	3/20/19	1410	180221A	03/20/19	100	103	Ⓟ/F	Ⓟ/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	3/20/19	713	180403C	10/20/19	7.0	7.00	-15.6	Ⓟ/F	Ⓟ/F
Calibr.	Curtis Musson	3/20/19	715	180621D	7/20/19	4.01	4.01	158.0	Ⓟ/F	Ⓟ/F
Calibr.	Curtis Musson	3/20/19	719	180621F	11/20/20	10.01	10.00	-186	Ⓟ/F	Ⓟ/F
ICV CM	Curtis Musson	3/20/19	721	180621D	7/20/19	4.01	4.01	154	Ⓟ/F	Ⓟ/F
CCV	Curtis Musson	3/20/19	722	180621D	7/20/19	4.01	4.01	157.4	Ⓟ/F	Ⓟ/F
CCV	Jason Stearns	3/20/19	1405	180403C	10/20/19	7.0	7.02	-15.5	Ⓟ/F	Ⓟ/F

pH Acceptance criteria ± 0.2 SU;

mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Curtis Musson	3/20/19	711	0.00	0.00	Ⓟ/F	Ⓟ/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Musson / Sparks

Field Report Prepared By:

Sampling Agency: FDEP

WIN ID / FILED ID			G1WA0049	Quincy Creek upstream of SR 65	WIN ID / FILED ID			G1WA0005	Tanyard Branch 100 meters upstream of Ralph Strong Rd.	WIN ID / FILED ID			G1WA0066	Alford Arm Tributary At Miccosukee	
Location	dd	dms	Longitude	dd	dms	Longitude	dd	dms	Longitude	dd	dms	Longitude	dd	dms	Longitude
Latitude					Latitude					Latitude					
Field ID					Field ID					Field ID					
WIN/STORET #					WIN/STORET #					WIN/STORET #					
Temp (C)	14.40				Temp (C)	14.06				Temp (C)	12.75				
Salinity (ppt)	0.03				Salinity (ppt)	0.09				Salinity (ppt)	0.08				
Matrix (type, e.g., Salt, Fresh, etc)	Fresh				Matrix (type, e.g., Salt, Fresh, etc)	Fresh				Matrix (type, e.g., Salt, Fresh, etc)	Fresh				
Diss. Oxygen	100.5				Diss. Oxygen	87.5				Diss. Oxygen	73.7				
Sample Depth	0.3				Sample Depth	0.25				Sample Depth	0.15				
Total Res. Chlorine (mg/L)	61				Total Res. Chlorine (mg/L)	187				Total Res. Chlorine (mg/L)	51				
Sp. Conductance (umho/cm)					Sp. Conductance (umho/cm)					Sp. Conductance (umho/cm)					
Composite end Date	11:44				Composite end Date	10:38				Composite end Date	9:36				
Bottle Group(s)	D				Bottle Group(s)	D				Bottle Group(s)	D				

Relinquished By:

Date/Time

3/20/2019

Shipping Method

DGP off

Number of Coolers Shipped:

5

Received By:

Date/Time

3/20/19 1345

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Musson/Storrs

Field Report Prepared By:

Sampling Agency: FDEP

WIN ID / FILED ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
		Comp Grab	Date	Time	mg/L	Total Res. Chlorine (mg/L)	Time
Quincy Creek 100 meters upstream of Ralph Strong Rd	G1WA0018	☒	3/20/2019	10:58	101.6	64	A
Temp (C)	13.76	pH	6.67				
Salinity (ppt)	0.03	Comments					
Swamp Creek upstream of Railroad	G1WA0052	☒	3/20/2019	12:28	94.5	84	B
Temp (C)	13.72	pH	6.32				
Salinity (ppt)	0.04	Comments					
Caney Creek Downstream of 158A	G1WA0060	☒	3/20/2019	8:36	89.4	104	C
Temp (C)	12.77	pH	6.46				
Salinity (ppt)	0.05	Comments					
WIN/STORET #		☒	3/20/2019				
Temp (C)		pH					
Salinity (ppt)		Comments					

Relinquished By:

Date/Time

3/20/2019

Shipping Method

Dry off

Number of Coolers Shipped:

Received By:

Date/Time

3/20/19 1345

Group: A	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: PCR-HF183	QPCR-P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: W-CARB-AA	BG-500ML	# of Bottles: 1	Preservative: CH2ClCOOH Pre-Preserved		Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: W-CT-CI-R W-PCL-SQ-R	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative:	HNO3 LOT# N98380070 EXP: 03/21/19	Enter Number of Bottles Sent to Lab
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4 H2SO4 LOT# S98274850 EXP: 10/01/2019	Enter Number of Bottles Sent to Lab

Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
Group: A	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: B	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-CARB-AA	BG-500ML	# of Bottles: 1	Preservative: CH2CICOOH Pre-Preserved		Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-CT-CL-R W-PCL-SQ-R	BG-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative: HNO3 LOT# NH8080070 EXP: 03/21/19	HNO3	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP	P-500ML	# of Bottles: 1	Preservative: H2SO4 LOT# S98274059 EXP: 10/01/2019	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1

Group: B	Bottle Type: W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H ₂ SO ₄ H ₂ SO ₄ LOT# 548274858 EXP: 10/01/2019	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: B	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: PCR-BACR	QPCR-P-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-CARB-AA	BG-500ML	# of Bottles: 1	Preservative: CH ₂ ClCOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-CT-Cl-R W-PCL-SQ-R	BG-500ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-ICP	P-500ML	# of Bottles: 1	Preservative: HNO ₃ HNO ₃ LOT# N98888878 EXP: 03/21/19	Enter Number of Bottles Sent to Lab	1

HNO3
LOT# NA8080070
EXP: 03/21/19

Enter Number of Bottles Sent to Lab 1

Preservative: HNO3

of Bottles: 1

P-500ML

Bottle Type:
W-ICPMS

Group: C

Enter Number of Bottles Sent to Lab 1

Preservative: ICE And H2SO4

of Bottles: 1

P-500ML

Bottle Type:
W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

Group: C

H2SO4
LOT# SA8274050
EXP: 10/01/2019

Enter Number of Bottles Sent to Lab 1

Preservative: FILTER-ICE

of Bottles: 1

P-125ML

Bottle Type:
W-PO4-F

Group: C

Enter Number of Bottles Sent to Lab 3

Preservative: ICE

of Bottles: 2

BG-1L

Bottle Type:
W-PSNP-TQ

Group: C

Enter Number of Bottles Sent to Lab 3

Preservative: ICE

of Bottles: 3

P-1L

Bottle Type:
ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Group: D

Enter Number of Bottles Sent to Lab 3

Preservative: ICE

of Bottles: 3

BP-1L

Bottle Type:
CHLSUITE-W

Group: D

Enter Number of Bottles Sent to Lab 3

Preservative: ICE

of Bottles: 3

P-250ML-WO-THI

Bottle Type:
ECOLI-18QT

Group: D

Enter Number of Bottles Sent to Lab 3

Preservative: HNO3

of Bottles: 3

P-500ML

Bottle Type:
W-ICP
W-ICPMS

Group: D

HNO3
LOT# NA8080070
EXP: 03/21/19

Enter Number of Bottles Sent to Lab 3

Preservative: ICE And H2SO4

of Bottles: 3

P-500ML

Bottle Type:
W-NH3
W-NO2NO3
W-S-A-TP
W-TKN

Group: D

H2SO4
LOT# SA8274050
EXP: 10/01/2019

H2SO4

LOT# 993274850
EXP: 10/01/2019

Group: D	Bottle Type: W-TOC	P-500ML	# of Bottles: 3	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab
					3
Group: D	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 3	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab
					3

Cooler Packing Worksheet for Request: RQ-2019-03-18-20

G1 Streams

Ship Cooler On: 3/14/2019

Customer/Project: WAS-SECT/SMP

Assigned To: KLUG_K

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Please return
packing list with
sample submittal
forms.

Comments:

No preservatives needed.

Group A: Quincy Creek 1303A

Nutrients, Metals, PCR-HF183, Pesticides, E.coli

Group B: Swamp Creek 427

Nutrients, Metals, Pesticides, E.coli

Group C: Caney Creek, 716

Nutrients, Metals, PCR-BacR, Pesticides, E.coli

Group D: Quincy Creek (Upstream). 1303 & Tanyard Branch, 595, 647M Alford Arm

Nutrients, Metals, E. coli

Packing Notes:

No FedEx labels

No Trash Bags

Requested Analyses:

Bottle Group: A

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00073319

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1246281

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

* Lot # 6420-TN

Description: 250 ml Sterilized no tablet

* out of P-250ML-WO-THI bottles

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: QPCR-P-500ML

Qty: 1 Preservation: ICE

Lot # 00071457

Description: 500ml Sterile Nalgene

Affix PCR Instruction Label to container

Analysis

PCR-HF183

Description

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Container ID: BG-500ML

Qty: 1 Preservation: CH₂CICOOH Pre-Preserved Lot # 00072996

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CARB-AA

Description

Carbamates in water matrices by HPLC/MS/MS

Container ID: BG-500ML

Qty: 4 Preservation: ICE

Lot # 00072340

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CT-CI-R

W-PCL-SQ-R

Description

Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization

Organochlorine pesticides in water matrices by GC/MS-SIM

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 00072340

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00072877

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00072877

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 00072954

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00073598

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS

Bottle Group: B# of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00073319

Description: Plastic Bottle 1L

Analysis

ALKALINITY

Description

Alkalinity in aqueous matrices as mg CaCO3/L

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

Turbidity in aqueous matrices
Chloride in aqueous matrices
True Color measured at 450 nm
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Sulfate in aqueous matrices
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1746281

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

* Lot # 6A20-TN

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: BG-500ML

Qty: 1 Preservation: CH2CICOOH Pre-Preserved

Lot # 00072998

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CARB-AA

Description

Carbamates in water matrices by HPLC/MS/MS

Container ID: BG-500ML

Qty: 2 Preservation: ICE

Lot # 00072340

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CT-CI-R

W-PCL-SQ-R

Description

Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization
Organochlorine pesticides in water matrices by GC/MS-SIM

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 00072340

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00072877

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00072877

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 00072954

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Container ID: BG-1L

Qty: 2 Preservation: ICE

Lot # 00073598

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS

Bottle Group: C

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00073319

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

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

Chloride in aqueous matrices
True Color measured at 450 nm
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Sulfate in aqueous matrices
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1246281

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

*Lot # GA20-TN

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: QPCR-P-500ML

Qty: 1 Preservation: ICE

Lot # 00071457

Description: 500ml Sterile Nalgene

Affix PCR Instruction Label to container

Analysis

PCR-BACR

Description

Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction

Container ID: BG-500ML

Qty: 1 Preservation: CH2ClCOOH Pre-Preserved

Lot # 00072493

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CARB-AA

Description

Carbamates in water matrices by HPLC/MS/MS

Container ID: BG-500ML

Qty: 2 Preservation: ICE

Lot # 00072340

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CT-CI-R

W-PCL-SQ-R

Description

Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization
Organochlorine pesticides in water matrices by GC/MS-SIM

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 00072340

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00072877

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00072877

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 00072954

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Container ID: BG-1L

Qty: 2 Preservation: ICE

Lot # 00073598

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS

Bottle Group: D

of Sites: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00073319

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO₃/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1246281

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 3 Preservation: ICE

*Lot # 6420-TN

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: P-500ML

Qty: 3 Preservation: HNO₃

Lot # 00072877

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 3 Preservation: ICE And H₂SO₄

Lot # 00072877

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH₃

W-NO₂NO₃

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

W-S-A-TP
W-TKN
W-TOC

Total Phosphorus in aqueous matrices as mg P/L
Total Kjeldahl Nitrogen in aqueous matrices
Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 3 Preservation: FILTER-ICE

Lot # 00072954

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: K12 Number of Coolers: 5 Date: 3.11.19

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☐ Acid Labels (sets of 24)

If Preservation Included:

ID <u>MCAA Buffer Soln</u>	Exp <u>1.1.20</u>	Lot # <u>98739</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2019-03-18-20