

McCoy, Ian

From: Slade, Christopher "Stopher"
Sent: Tuesday, July 26, 2022 12:25 PM
To: McCoy, Ian
Cc: Klug, Kyle; King, Michael; Butler, Myranda K; Mulkey, Nathan
Subject: RE: Missing Cooler

Follow Up Flag: Follow up
Flag Status: Flagged

Could you please log them in as normal. SMP Protocol lists that organic samples are an exception to the rule and should be received and analyzed even if outside hold time.

Let me know if you have any more questions,

Stopher

From: McCoy, Ian <Ian.McCoy@FloridaDEP.gov>
Sent: Tuesday, July 26, 2022 11:08 AM
To: Slade, Christopher "Stopher" <Christopher.Slade@dep.state.fl.us>; Butler, Myranda K <Myranda.K.Butler@FloridaDEP.gov>
Cc: Klug, Kyle <Kyle.Klug@FloridaDEP.gov>; King, Michael <Michael.King@dep.state.fl.us>
Subject: Missing Cooler

Good afternoon, I received RQ-2022-05-23-25 and noticed that there was a second cooler shipped but only one cooler was received. We're missing the Amber Glass and one Metals sample from this event. Do you have any preference on login for these missing samples when they (probably) arrive tomorrow?

-IM
7/27/22

Ian McCoy
Florida DEP Receiving
Lab Support Staff
Phone - 850-245-8062

Login Checklist

RQ-2022-05-23-25

Login Station ID: #2

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 7/27/2022 9:35

*Cooler Temperature	Samples Frozen?	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Waybill Tracking #
					Present?		*Intact?		
	YES	HNO ₃	Formalin		Yes	No	Yes	No	
1.9				10		☒			5225 5540 5218

COOLER CHECK

*All samples received on ice unless otherwise noted. HNO3 and Formalin preserved samples do NOT have a temperature requirement.

- If the temperature of a cooler exceeds 6.0 oC (above 10.0 oC for W-1-4-DIOX and microbiology) or received without ice, identify affected samples in an NCR. NCR# _____
- DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C for W-1-4-DIOX) without login confirmation from customer for samples requiring ice preservation; identify affected samples in an NCR. NCR# _____
- If cooler or samples are received with a damaged Evidence Seal; identify the affected samples in an NCR. NCR# _____
- If coolers or samples are received late; identify the affected samples in an NCR. NCR# _____

Chain of Custody/ Field Sheet(s) Included?

Yes ☒ No _____

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included?

Yes _____ No ☒

CONTAINER CHECK

Evidence Tape on Bottles?

Yes _____ No _____ NA ☒

Evidence Tape intact? Yes _____ No _____

If Criminal, photographs taken?

Yes _____ No _____

Containers intact? Yes ☒ No _____

Caps on tight?

Yes ☒ No _____

Sufficient Sample Volume:

Yes ☒ No _____

If **NO** is checked above, generate an NCR listing affected sample IDs in its appropriate category. NCR# _____

CHLORINE CHECK REQUIRED? (Blue dot on container)

Yes ☒ No _____ Init: IM

Chlorine detected? (One container checked per Field ID)

Yes _____ No ☒ Init: IM

If chlorine is detected, generate an NCR listing affected sample IDs . NCR# _____

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

**Acid Preserved Samples: pH < 2.0?

Yes _____ No _____ NA ☒ Init: IM

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0?

Yes _____ No _____ NA ☒ Init: IM

If samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

Coolers Unpacked/Checked by: IM

Date: 7/27/2022

Event contains NCRs (Y/N)? ☒

Event ID:

NW Run

NW-DIST-2022-07-27-01 (SMP)

Date Received: 27-JUL-2022 09:35

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	IR TEMP GUN #2 exp:10/19/22
pH Test Strips 0 – 6	
pH Paper 0 – 3	
pH Paper 0 – 13	210620 exp: 4/15/23
Chlorine Test Strips	0070 exp: 02/2023

ENCORE SAMPLES

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

Were Encore samples received? Yes _____ Init: _____

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 _____

If S-VOC-MS samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

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
CHAIN OF CUSTODY FORM

Date: 7/25/2022 **Collected By:** Frank Butera, Nathan Mulkey
Customer: NW-DIST **Sampling Agency:** FDEP
RQ: RQ-2022-05-23-25 **Project ID:** SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

Number of Coolers Shipped: 2

Delivery Method: FedEx

FIELD ID (Labels) submitted under this RQ for this collection date.

Site Location	Field ID/WIN ID
Wiggins Branch below Highway 29	 G4NW0183
Big Escambia Creek downstream of Fannie Rd	 G4NW0421
Little Pine Barren Creek below CR99A	 G4NW0192
Little Pine Barren Creek above CR99	 G4NW0420
Brushy Creek Up	 G5NW0002

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 7/25/2022
1630 CEN

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:



Rec'd/Inspected

Date:

7/27/22

only
Site
on
event
IM
7/27/22



RQ-2022-05-23-25

Collected By: Frank Butera, Nathan Mulkey

Customer: FDEP

Field Report Prepared by: Frank Butera, Nathan Mulkey

Project ID: SMP

Sampling Agency: FDEP

 WIN ID/Field ID: 
 WIN ID/Field ID: G4NW0421

Comments: Microbiology sample(s) submitted to contract laboratory.

Location:

Location: Big Escambia Creek downstream of Fannie Rd

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

Date and Time {CEN}	DO (mg/L)	DO (%SAT)	Temp. °C	pH	Sample Depth (m)	Secchi Depth	Total Depth (m)	Sp COND (µmhos /cm)	Salinity (PPT)
7/25/2022 1005	7.91	93.8	24.2	5.56	0.25	0.05	0.5	33.5	0.01

Parameter Suite	Parameter Methods				Preservation		pH Check		# Bottles sent to Lab	Bottle Group				
Preserved Nutrients (P-500ML)	X	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			X	Ice	X	H2SO4*	X	<2	1	A		
		Lot #	SA1308030	Exp:	12/01/2022									
Metals (P-500ML)	x	W-ICPMS	X	W-ICP	X	W-HARD	X	Ice	X	HNO3*	X	<2	1	A
		Lot #	1105100	Exp:	06/07/2023									
Filtered Nutrients (P125ML)		W-PO4-F		Field Filtered 0.45 µm Filter			Ice							
		Filter Lot #		Syringe Lot #										
BOD (BP-1L)		OV-BODUNIN					Ice							
Chlorophyll (BP-1L)	X	CHLSUITE-W				x	Ice			1	A			
Physical/Aggregate (Fresh) (P-1L)	X	Alkalinity / W-F / W-TSS / TURBIDITY / W-CHIC / W-COLOR / W-SO4-IC / W-TDS				x	Ice			1	A			
Physical/Aggregate (Marine) (P-1L)		Alkalinity / W-F / W-TSS / TURBIDITY					Ice							
Macroinvertebrates (PJ-2L)		MI-FW-QLDC		Formalin Lot #			Formalin							
Periphyton (PT-50ML)		ALGAE-ID					Ice							
Microbiology (Contract Lab Bottle)	X	E Coli		F Coli		Enterococci	x	Ice		1	A			
	X	Contract Lab												
Molecular (QPCR-P-500ML)		PCR-HF183		PCR-BacR		PCR-DG3		Ice						
		PCR-GULL2		PCR-GFD										
Tracers (BG-500ML)		W-E8321-D1		W-E8321-MS				Ice						
Pesticides (BG-500ML) (BG-1L)	X	W-E8321-D1	X	W-E8321-MS	X	W-PSNP-TQ	x	Ice	MCAA Exp.	MCAA Lot#	10	A		
	X	W-PCL-TQ-R	X	W-CARB-AA (5 ml of MCAA Buffer Solution)	X	W-CT-CL-R			02/04/2023	128343				
	X	W-TR-SQ-R	X	W-PCB-TQ-R										
Phytoplankton		DTY-QN-C		PKD-QN-BV				Ice						

Missing cooler contained only these samples
 -IM 7/27/22



RQ-2022-05-23-25

Collected By: Frank Butera, Nathan Mulkey

Customer: FDEP

Field Report Prepared by: Frank Butera, Nathan Mulkey

Project ID: SMP

Sampling Agency: FDEP

 WIN ID/Field ID: 
 WIN ID/Field ID: G4NW0163

Comments: Microbiology sample(s) submitted to contract laboratory.

Location:

Location: Wiggins Branch below Highway 29

Matrix: Fresh

(Check One) ☒ Grab ☐ Composite

Date and Time {CEN}	DO (mg/L)	DO (%SAT)	Temp. °C	pH	Sample Depth (m)	Secchi Depth	Total Depth (m)	Sp COND (µmhos /cm)	Salinity (PPT)
7/25/2022 930	6.38	81.3	28.1	5.31	0.11	0.22	0.22	25.6	0.01

Parameter Suite	Parameter Methods				Preservation		pH Check		# Bottles sent to Lab	Bottle Group				
Preserved Nutrients (P-500ML)	X	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			X	Ice	X	H2SO4*	X	<2	1	B		
		Lot #	SA1308030	Exp:	12/01/2022									
Metals (P-500ML)	x	W-ICPMS		X	W-ICP	W-HARD	X	Ice	X	HNO3*	X	<2	1	B
		Lot #	NA1105100	Exp:	06/07/2023									
Filtered Nutrients (P125ML)		W-PO4-F		Field Filtered 0.45 µm Filter			Ice							
		Filter Lot #		Syringe Lot #										
BOD (BP-1L)		OV-BODUNIN					Ice							
Chlorophyll (BP-1L)	X	CHLSUITE-W				X	Ice			1	B			
Physical/Aggregate (Fresh) (P-1L)	X	Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				X	Ice			1	B			
Physical/Aggregate (Marine) (P-1L)		Alkalinity / W-F / W-TSS / TURBIDITY					Ice							
Macroinvertebrates (PJ-2L)		MI-FW-QLDC	Formalin Lot #			Formalin								
Periphyton (PT-50ML)		ALGAE-ID					Ice							
Microbiology (Contract Lab Bottle)	X	E Coli		F Coli		Enterococci	X	Ice		1	B			
	X	Contract Lab												
Molecular (QPCR-P-500ML)		PCR-HF183		PCR-BacR		PCR-DG3		Ice						
		PCR-GULL2		PCR-GFD										
Tracers (BG-500ML)		W-E8321-DI		W-E8321-MS				Ice						
Pesticides (BG-500ML) (BG-1L)		W-E8321-DI		W-E8321-MS		W-PSNP-TQ		Ice	MCAA Exp.	MCAA Lot#				
		W-PCL-TQ-R		W-CARB-AA (5 ml of MCAA Buffer Solution)		W-CT-CL-R								
		W-TR-SQ-R		W-PCB-TQ-R										
Phytoplankton		DTY-QN-C		PKD-QN-BV				Ice						



RQ-2022-05-23-25

Collected By: Frank Butera, Nathan Mulkey

Customer: FDEP

Field Report Prepared by: Frank Butera, Nathan Mulkey

Project ID: SMP

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G4NW0192

Comments: Microbiology sample(s) submitted to contract laboratory.

Location:

Location: Little Pine Barren Creek below CR99A

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

Date and Time {CEN}	DO (mg/L)	DO (%SAT)	Temp. °C	pH	Sample Depth (m)	Secchi Depth	Total Depth (m)	Sp COND (µmhos /cm)	Salinity (PPT)
7/25/2022 1112	3.27	39.2	24.4	5.43	0.15	0.36	0.36	43.1	0.02

Parameter Suite	Parameter Methods			Preservation		pH Check		# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	X	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP		X	Ice	X	H2SO4*		
		Lot # SA1308030	Exp: 12/01/2022			X	<2	1	B
Metals (P-500ML)	X	W-ICPMS	X W-ICP	X	W-HARD	X	Ice	X	HNO3*
		Lot # NA1105100	Exp: 06/07/2023			X	<2	1	B
Filtered Nutrients (P125ML)		W-PO4-F	Field Filtered 0.45 µm Filter						
		Filter Lot #	Syringe Lot #		Ice				
BOD (BP-1L)		OV-BODUNIN				Ice			
Chlorophyll (BP-1L)	X	CHLSUITE-W			X	Ice		1	B
Physical/Aggregate (Fresh) (P-1L)	X	Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS			X	Ice		1	B
Physical/Aggregate (Marine) (P-1L)		Alkalinity / W-F / W-TSS / TURBIDITY				Ice			
Macroinvertebrates (PJ-2L)		MI-FW-QLDC	Formalin Lot #			Formalin			
Periphyton (PT-50ML)		ALGAE-ID				Ice			
Microbiology (Contract Lab Bottle)	X	E Coli	F Coli	Enterococci	X	Ice		1	B
	X	Contract Lab							
Molecular (QPCR-P-500ML)		PCR-HF183	PCR-BacR	PCR-DG3		Ice			
		PCR-GULL2	PCR-GFD						
Tracers (BG-500ML)		W-E8321-DI	W-E8321-MS			Ice			
		W-E8321-DI	W-E8321-MS	W-PSNP-TQ			MCAA Exp.	MCAA Lot#	
Pesticides (BG-500ML) (BG-1L)		W-PCL-TQ-R	W-CARB-AA (5 ml of MCAA Buffer Solution)			Ice			
		W-TR-SQ-R	W-PCB-TQ-R						
Phytoplankton		DTY-QN-C	PKD-QN-BV			Ice			

Date of Request: 25-APR-2022
 Created By: SLADE_C On: 25-APR-2022
 Modified By: JASROTIA_P On: 08-JUL-2022
 Customer: NW-DIST
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District: Northwest District
 Event Description: NW Run

Send Coolers To:

Phone: 850-595-0567
 160 W Government Street
 Suite 208
 Pensacola, FL 32502-5794
 Attn: Stopher Slade
 Cooler Ship EMail: christopher.slade@floridadep.gov

Priority: 3
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 07-JUL-2022
 Biology Request Reviewed By: JASROTIA_P On: 08-JUL-2022
 Sampling Kit Required: NO Ship on:
 Sampling Kit Shipped: YES On: 16-MAY-2022
 Sampling Kit Packed By: ROBERTS_Z
 Preservatives Needed: NO
 Date to Receive Samples: 23-MAY-2022
 Logged In By: MCCOY_I On: 26-JUL-2022

Send Final Report To:

160 W Government Street
 Suite 208
 Pensacola, FL 32502-5794
 Attn: Myranda Butler
 Report Notification EMail:
 Christopher.slade@floridadep.gov;Myranda.k.butler@floridadep.gov

Comments: Group A: (WBID 10) Freshwater Nutrients, Metals, Pesticides, Contract Lab Bacteria
 Group B: (WBID 25, 87) Freshwater Nutrients, Metals, Contract Lab Bacteria
 Group C: (WBID 149, 4, 87) Metals, Contract Lab Bacteria
 Group D: (WBID 291) Contract Lab Bacteria

Packing notes;

#####

Buffer Solution for W-CARB-AA Bottle Needed

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Bottle Group A (Water) With 1 Samples:

Bottle Type: P-1L	Number of Bottles: 1	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-2011) 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	(DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)
Color (true)		
W-F	Template: DEFAULT	(SM 4500-F- C-2011) 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-2011) Total Dissolved Solids in aqueous matrices
W-TSS	Template: DEFAULT	(SM 2540 D-2011) 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 Group A (Water) With 1 Samples:

Bottle Type: TEST HAS NO	Number of Bottles: 1	Preserved With: ICE
NW-UWF-ECQ	Template: DEFAULT	(SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola
Bottle Type: BG-500ML	Number of Bottles: 1	Preserved With: CH2ClCOOH and Ice
W-CARB-AA	Template: DEFAULT	(EPA 8321B) Carbamates in water matrices by HPLC/MS/MS
Bottle Type: BG-500ML FILL TO	Number of Bottles: 4	Preserved With: ICE
W-CT-CI-R	Template: DEFAULT	(EPA 8276) Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization
W-PCB-TQ-R	Template: DEFAULT	(EPA 8270E) PCBs in water matrices by GC/MS/MS
W-PCL-TQ-R	Template:	(EPA 8270E) Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS
Bottle Type: BG-500ML	Number of Bottles: 1	Preserved With: ICE
W-E8321-DI	Template: DEFAULT	(EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Template: SMP	(EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: HNO3
W-HARD	Template: DEFAULT	(SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3
Hardness		
W-ICP	Template: SMP-FRESH	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
Calcium		
Iron		
Magnesium		
Potassium		
Sodium		
Strontium		
Tin		
Titanium		
Vanadium		
Zinc		
W-ICPMS	Template: DEFAULT	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
Aluminum		
Antimony		
Arsenic		
Barium		
Beryllium		
Boron		
Cadmium		
Chromium		
Cobalt		
Copper		
Lead		
Manganese		
Molybdenum		
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-2011) Nonpurgeable Organic Carbon in aqueous matrices
Bottle Type: BG-1L	Number of Bottles: 4	Preserved With: ICE
W-PSNP-TQ	Template: DEFAULT	(EPA 8270E) Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS
W-TR-SQ-R	Template: DEFAULT	(EPA 8270E) Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM

Bottle Group B (Water) With 2 Samples:

Bottle Type: P-1L	Number of Bottles: 2	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-2011) 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

Bottle Group B (Water) With 2 Samples:

Bottle Type: P-1L	Number of Bottles: 2	Preserved With: ICE
W-COLOR	Template: DEFAULT	(DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)
Color (true)		
W-F	Template: DEFAULT	(SM 4500-F- C-2011) 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-2011) Total Dissolved Solids in aqueous matrices
W-TSS	Template: DEFAULT	(SM 2540 D-2011) 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: TEST HAS NO	Number of Bottles: 2	Preserved With: ICE
NW-UWF-ECQ	Template: DEFAULT	(SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola
Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: HNO3
W-HARD	Template: DEFAULT	(SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3
Hardness		
W-ICP	Template: SMP-FRESH	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
Calcium		
Iron		
Magnesium		
Potassium		
Sodium		
Strontium		
Tin		
Titanium		
Vanadium		
Zinc		
W-ICPMS	Template: DEFAULT	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
Aluminum		
Antimony		
Arsenic		
Barium		
Beryllium		
Boron		
Cadmium		
Chromium		
Cobalt		
Copper		
Lead		
Manganese		
Molybdenum		
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-2011) Nonpurgeable Organic Carbon in aqueous matrices

Bottle Group C (Water) With 3 Samples:

Bottle Type: TEST HAS NO	Number of Bottles: 3	Preserved With: ICE
NW-UWF-ECQ	Template: DEFAULT	(SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola
Bottle Type: P-500ML	Number of Bottles: 3	Preserved With: HNO3
W-HARD	Template: DEFAULT	(SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3
Hardness		

Bottle Group C (Water) With 3 Samples:

Bottle Type: P-500ML Number of Bottles: 3 Preserved With: HNO3
W-ICP Template: SMP-FRESH (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Calcium
Iron
Magnesium
Potassium
Sodium
Strontium
Tin
Titanium
Vanadium
Zinc

W-ICPMS Template: DEFAULT (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Lead
Manganese
Molybdenum
Nickel
Selenium
Silver
Thallium

Bottle Group D (Water) With 1 Samples:

Bottle Type: TEST HAS NO Number of Bottles: 1 Preserved With: ICE
NW-UWF-ECQ Template: DEFAULT (SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola

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