

Roberts, Zachary

From: Musson, Curtis
Sent: Tuesday, March 29, 2022 5:14 PM
To: Roberts, Zachary
Cc: Klug, Kyle
Subject: RE: RQ-2022-03-28-06

Both algal samples were from the same site at the same time.
The alga collection time should be the same as the WQ bottles (chlorophyll, metals, nutrients, etc.)
Thanks,
Curtis

From: Roberts, Zachary <Zachary.Roberts@FloridaDEP.gov>
Sent: Tuesday, March 29, 2022 4:50 PM
To: Musson, Curtis <Curtis.Musson@FloridaDEP.gov>
Cc: Klug, Kyle <Kyle.Klug@FloridaDEP.gov>
Subject: RQ-2022-03-28-06

Hey Curtis,

The two Algal samples both have the same Field ID and collection time written on them, are they both from the same site?

Also 10:37 is the collection time written down for the G2WA009 Field ID which is the A/B site but 10:43 is the collection time on the Algal samples, can you confirm the correct collection time?

-Zac



ZAC ROBERTS
Laboratory Technician IV
Scientific Services Support Program
FDEP Laboratories
Office: 850-245-8784
Zachary.Roberts@FloridaDEP.gov

Login Checklist

RQ- 2022-03-29-06

Login Station ID: #4

Shipping Method: FedEx | UPS | HD Greyhound

Date/Time of Receipt: 03/29/22 @ 15:36

*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	
1.4				14		X			
2.4				12		X			

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 X

CONTAINER CHECK

Evidence Tape on Bottles?

Yes _____ No _____ NA X

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 X Init: NR

Chlorine detected? (One container checked per Field ID)

Yes _____ No _____ Init: _____

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: NR

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

Yes _____ No _____ NA X Init: NR

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

Coolers Unpacked/Checked by: NR

Date: 03/29/22

Event contains NCRs (Y/N)? N

Merrit's Mill Pond BMAP
Event WAS-SECT-2022-03-29-01 (BMAP)

Date Received: 29-MAR-2022 15:36

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	#4 Temp Gun EXP:10/19/2022
pH Test Strips 0 – 6	223819AV EXP:08/30/2023
pH Paper 0 – 3	N/A
pH Paper 0 – 13	207621 EXP:03/15/2024
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: _____

Customer: WAS-SECT
Project ID: BMAP

Requester: Curtis Musson
Collected By: Curtis Musson

Field Report Prepared By: Curtis Musson
Sampling Agency: FDEP

Location <i>Merritt's Mill Pond 600 m downstream</i>		☐ Comp		Collection (comp begin or grab)		☒ Grab		Date 3.29.22		Time 12:17		☒ Eastern ☐ Central		Composite end		Date		Time		Bottle Group(s) (See pg 2)					
Field ID <i>G2W4007</i>		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		8.34		☒ mg/L Total Res. Chlorine		☐ % sat (mg/L)								A					
WINSTORET # <i>G2W4007</i>		Temp (C)		21.1		pH		7.72		Sample Depth		0.03		☒ ft ☐ m		Sp. Conductance (umho/cm)		279.1							
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments															
Location <i>Merritt's Mill Pond Mid under Power Lines</i>		☐ Comp		Collection (comp begin or grab)		☒ Grab		Date 3.29.22		Time 11:47		☒ Eastern ☐ Central		Composite end		Date		Time		Bottle Group(s)					
Field ID <i>G2W4008</i>		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		13.71		☒ mg/L Total Res. Chlorine		☐ % sat (mg/L)								A					
WINSTORET # <i>G2W4008</i>		Temp (C)		21.7		pH		8.4		Sample Depth		0.3		☒ ft ☐ m		Sp. Conductance (umho/cm)		270.7							
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments															
Location <i>Merritt's Mill Pond</i>		☐ Comp		Collection (comp begin or grab)		☒ Grab		Date 3.29.22		Time 10:37		☒ Eastern ☐ Central		Composite end		Date		Time		Bottle Group(s)					
Field ID <i>G2W4009</i>		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		12.52		☒ mg/L Total Res. Chlorine		☐ % sat (mg/L)								AB					
WINSTORET # <i>G2W4009</i>		Temp (C)		24.0		pH		8.16		Sample Depth		0.3		☒ ft ☐ m		Sp. Conductance (umho/cm)		144.2		26.8					
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments															
Location		WIN ID / FILED ID		WIN ID / FILED ID		☐ Comp		Collection (comp begin or grab)		☒ Grab		Date 3/29/2022		Time 12:27		☒ Eastern ☐ Central		Composite end		Date		Time		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		7.03		☒ mg/L Total Res. Chlorine		☐ % sat (mg/L)										A			
WINSTORET #		Temp (C)		20.8		pH		7.51		Sample Depth		0.3		☐ ft ☐ m		Sp. Conductance (umho/cm)		311.7							
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments															

Relinquished By: <i>Musson</i>	Date/Time <i>3/29/2022</i>	Shipping Method <i>14D</i>	Number of Coolers Shipped:	Received By: <i>MM</i>	Date/Time <i>3.29.22/1626</i>
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Group: A	Bottle Type:	P-1L	# of Bottles: 4	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: A	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	CHLSUITE-W					
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab
	W-HARD		Lot # 041165100			
	W-ICP		EXP 6/7/2022			
	W-ICPMS					
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
	W-NH3		Lot # SA 1165060			
	W-NO2NO3		EXP 4/30/2022			
	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
	W-PO4-F					
Group: B	Bottle Type:	PT-50ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	ALGAL_ID					
Group: C	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-SO4-IC					
	W-TDS					
	W-TSS					

Florida Department of Environmental Protection Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Project ID: BMAP

Collected By:

Sampling Agency:

[illegible]

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
CARL MURSON	3-29-2022	hand delivered	2	HH	3-29-22 / 1626

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:	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-HARD						
	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:	PT-50ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALGAL_ID						
Group: C	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-SO4-IC						
	W-TDS						
	W-TSS						

Lot # NA 1105100
Exp 6.7.2022

Lot # SA 1105060
Exp 4.30.2022

Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab
	W-HARD					
	W-ICP	Lot #	NA	1105100		
	W-ICPMS	EXP	6.7.2022			
Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	
	W-NH3					
	W-NO2NO3	Lot #	54	1105060		
	W-S-A-TP					
	W-TKN	EXP	4.30.2022			
	W-TOC					
Group: C	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	
	W-PO4-F					

Date of Request: 07-FEB-2022
 Created By: MUSSON_C On: 07-FEB-2022
 Modified By: JASROTIA_P On: 08-MAR-2022
 Customer: WAS-SECT
 Project: BMAP
 Division:
 District:
 Event Description: Merrit's Mill Pond BMAP

Send Coolers To:

Phone: 850-245-8453
 2600 Blair Stone Rd

 Tallahassee, FL 32399
 Attn: Curtis Musson
 Cooler Ship EMail: Curtis.Musson@dep.state.fl.us

Priority: 3
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 08-MAR-2022
 Biology Request Reviewed By: JASROTIA_P On: 08-MAR-2022
 Sampling Kit Required: YES Ship on: 18-MAR-2022
 Sampling Kit Shipped: YES On: 14-MAR-2022
 Sampling Kit Packed By: ROBERTS_Z
 Preservatives Needed: NO
 Date to Receive Samples: 28-MAR-2022
 Logged In By: ROBERTS_Z On: 29-MAR-2022

Send Final Report To:

2600 Blair Stone Rd

 Tallahassee, FL 32399
 Attn: Curtis Musson
 Report Notification EMail: curtis.musson@dep.state.fl.us

Comments: Group A: Nutrients, Metals x4
 Group B: Algal_ID x1

Packing Notes:
 No Fedex Labels
 No Trash Bags

Sampling Note:
 Group A: 4 sties
 Group B: Algal ID
 Group C Blank

Bottle Group A (Water) With 4 Samples:

Bottle Type: P-1L	Number of Bottles: 4	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-2011) 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	(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: 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: HNO ₃
W-HARD	Template: DEFAULT	(SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃
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		

Bottle Group A (Water) With 4 Samples:

Bottle Type: P-500ML	Number of Bottles: 4	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
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
*Boron		
Aluminum		
Antimony		
Arsenic		
Barium		
Beryllium		
Cadmium		
Chromium		
Cobalt		
Copper		
Lead		
Manganese		
Molybdenum		
Nickel		
Selenium		
Silver		
Thallium		

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-2011) 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 (Biological) With 2 Samples:

Bottle Type: PT-50ML	Number of Bottles: 2	Preserved With: ICE
ALGAL_ID	Template: DEFAULT	(SOP-AB05) Qualitative assessment of algal taxa present without counts

Bottle Group C (Water) With 1 Samples:

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 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-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: 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

Bottle Group C (Water) With 1 Samples:

Bottle Type: P-500ML	Number of Bottles: 1	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
*Boron		
Aluminum		
Antimony		
Arsenic		
Barium		
Beryllium		
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

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

