



From: Matthews, Daisys
To: [Bunch, Cheryl](#)
Subject: RE: PCR results Inquiry
Date: Wednesday, October 19, 2016 1:01:00 PM
Attachments: [image001.png](#)

It doesn't look like it was in the RQ. So it wasn't logged in and we didn't analyze for it. We should still have extracts for it and should be able to run it. I'll check and let you know.

Daisys



Daisys Matthews
Environmental Manager
FDEP Laboratory - Biology Program
Florida Department of Environmental Protection
Daisys.Matthews@dep.state.fl.us
Office: 850.245.8057
Lab: 850.245.8728

From: Bunch, Cheryl
Sent: Wednesday, October 19, 2016 12:54 PM
To: Matthews, Daisys <Daisys.Matthews@dep.state.fl.us>
Subject: PCR results Inquiry

Hi Daisys,
I noticed that the GULL2-qPCR** was not reported for this sampling event. I wanted to inquire as to whether it will be reported at a later date.
When convenient-thanks!

Cheryl A. Bunch
Environmental Specialist
NW Regional Operations Center
Strategic Monitoring Program
Florida Department of Environmental Protection
Division of Environmental Assessment and Restoration
(850) 595-0571
Fax (850) 595-8417

Please note: Florida has a very broad public records law. Most written communications to or from state officials regarding state business are public records available to the public and media upon request. Your E-mail communication may therefore be subject to public disclosure.

Document Reference # 05.1.0

Sampler's initials : M / DM

Page 1 of 1

Date/Time: 9.19.2010 1410

Date/Time: 9/19/2016 1416

Instructions: Fill in all fields except "Lab ID" on sample transport form completely. Each sample container must use a separate line. Place this form in a waterproof bag and place it with the samples for transport. If a field log or other chain of custody is attached, that information may be referenced on this form and the log or COC attached.

[illegible]

Sample Container Lot #: L14034

Contact name: Dana Morton (595-1865), Cheryl Bunch 595-0571

____ Sampler's name: _____

¹Matrix: SW = surface water, PW = pore water, GW = ground water, S = soil/sediment, X =

³ Recorded using IRT-2

Central Laboratory Submittal Form

Customer: NW-DIST

Requester: Cheryl Bunch

Field Report Prepared By:

M. Taylor

Project ID: BMAP

Collected By:

M. Taylor D. Morton

Sampling Agency:

ESCUOLM

Location Field Location: Pensacola Bay at Sanders Beach STC RQ-2016-09-19-15 Date: Time: CST		Field ID STORET 33020J10		☐ Comp ☒ Grab Collection (comp begin or grab) Date 9.19.2016 Time 0910		Eastern ☒ Central Composite end Date Time		Bottle Group(s) (See pg 2) A	
				Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 70		Total Res. Chlorine (mg/L)	
				Temp (C) 28.6		pH 7.6		Sample Depth 0.2	
				Salinity (ppt) 24.3		Sp. Conductance (umho/cm) 37635			
				☐ dd ☐ dms		☐ ft ☒ m			
				Comments					
Location Field Location: Bayou Chico at Mandalay Park STC RQ-2016-09-19-15 Date: Time: CST		Field ID STORET 33020JD4		☐ Comp ☒ Grab Collection (comp begin or grab) Date 9.19.2016 Time 0935		Eastern ☒ Central Composite end Date Time		Bottle Group(s) (See pg 2) A	
				Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 8.5		Total Res. Chlorine (mg/L)	
				Temp (C) 28.4		pH 7.2		Sample Depth 0.2	
				Salinity (ppt) 5.4		Sp. Conductance (umho/cm) 9416			
				☐ dd ☐ dms		☐ ft ☒ m			
				Comments					
Location Field Location: Jones Creek at Old Corry Road STC RQ-2016-09-19-15 Date: Time: CST		Field ID STORET 33020118		☐ Comp ☒ Grab Collection (comp begin or grab) Date 9.19.2016 Time 1010		Eastern ☒ Central Composite end Date Time		Bottle Group(s) (See pg 2) A	
				Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 59		Total Res. Chlorine (mg/L)	
				Temp (C) 26.4		pH 7.2		Sample Depth 0.2	
				Salinity (ppt) 0.0		Sp. Conductance (umho/cm) 76			
				☐ dd ☐ dms		☐ ft ☒ m			
				Comments					
Location Field Location: Jackson Creek at Old Corry Road STC RQ-2016-09-19-15 Date: Time: CST		Field ID STORET 33020221		☐ Comp ☒ Grab Collection (comp begin or grab) Date 9.19.2016 Time 1040		Eastern ☒ Central Composite end Date Time		Bottle Group(s) (See pg 2) A	
				Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 6.985		Total Res. Chlorine (mg/L)	
				Temp (C) 26.2		pH 7.1		Sample Depth 0.2	
				Salinity (ppt) 0.1		Sp. Conductance (umho/cm) 136			
				☐ dd ☐ dms		☐ ft ☒ m			
				Comments					

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

M. Taylor 9-19-2016/1336

FedEx

3

C

9/20/16 10:35

Group: A	Bottle Type:	BP-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					
Group: A	Bottle Type:	TEST HAS NO BOTTLE	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	NW-UWF-FC					
Group: A	Bottle Type:	QPCR-P-250ML	# of Bottles: 14	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	PCR-HF183					
Group: A	Bottle Type:	P-250ML	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	TURBIDITY					
Group: A	Bottle Type:	P-500ML	# of Bottles: 7	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
Group: A	Bottle Type:	BG-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	W-SUC-AA-R					
	W-UHERB-AA					
Group: B	Bottle Type:	TEST HAS NO BOTTLE	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	NW-UWF-ECQ					
Group: C	Bottle Type:	TEST HAS NO BOTTLE	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	NW-UWF-ENT					

Bayou Chico BMAP

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: NW-DIST

Requester: Cheryl Bunch

Field Report Prepared By:

M. Taylor

Project ID: BMAP

Collected By:

D. Morton, M. Taylor

Sampling Agency:

ESCWOLM

Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9-19-2016 Time 1110		Eastern Composite end Date Time		Bottle Group(s) (See pg 2)	
Location: Jackson Creek at New Warrington Road RQ-2016-09-19-15 Date: Time: CST		Field ID STORET 33020220		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 83		Total Res. Chlorine (mg/L)	
☐ dms		☐ dd ☐ dms		Temp (C) 26.8		pH 7.2		Sample Depth 0.2	
				Salinity (ppt) 0.1		Comments		Sp. Conductance (umho/cm) 121	
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9-19-2016 Time 1230		Eastern Composite end Date Time		Bottle Group(s)	
Location: Bayou Chico at Navy Blvd Bridge RQ-2016-09-19-15 Date: Time: CST		Field ID STORET 3302JE20		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 59		Total Res. Chlorine (mg/L)	
☐ dms		☐ dd ☐ dms		Temp (C) 31.5		pH 7.0		Sample Depth 0.2	
				Salinity (ppt) 14.7		Comments		Sp. Conductance (umho/cm) 23802	
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9-19-2016 Time 1250		Eastern Composite end Date Time		Bottle Group(s)	
Location: Bayou Chico at W Street RQ-2016-09-19-15 Date: Time: CST		Field ID STORET 33020JF1		Matrix (type, e.g., Salt, Fresh, etc) Brackish		Diss. Oxygen 56		Total Res. Chlorine (mg/L)	
☐ dms		☐ dd ☐ dms		Temp (C) 28.1		pH 6.9		Sample Depth 0.2	
				Salinity (ppt)		Comments		Sp. Conductance (umho/cm) 5891	
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Composite end Date Time		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine (mg/L)	
STORET #				Temp (C)		pH		Sample Depth	
Latitude		Longitude		Salinity (ppt)		Comments		Sp. Conductance (umho/cm)	

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Mollie G. Jaffe

9-19-2016 1336

Fed Ex

3

a

9/20/16 10:35

Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: A	Bottle Type: NW-UWF-FC	TEST HAS NO BOTTLE	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: A	Bottle Type: PCR-HF183	QPCR-P-250ML	# of Bottles: 14	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: A	Bottle Type: TURBIDITY	P-250ML	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 7	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
Group: A	Bottle Type: W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: NW-UWF-ECQ	TEST HAS NO BOTTLE	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: C	Bottle Type: NW-UWF-ENT	TEST HAS NO BOTTLE	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab _____

Date of Request: 17-AUG-2016
 Created By: BUNCH_CA On: 17-AUG-2016
 Modified By: WATTS_J On: 31-AUG-2016
 Customer: NW-DIST
 Project: BMAP
 Division: Division of Environmental Assessment and Restoration
 District: Northwest District
 Sampling Event: Bayou Chico BMAP

Send Coolers To:

Phone: 850-595-8300
 160 Government Center
 Suite 308
 Pensacola, FL 32502-5794
 Attn: Cheryl Bunch

Program Module Number:
 Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 31-AUG-2016
 Biology Request Reviewed By: MATTHEWS_D On: 31-AUG-2016
 Sampling Kit Required: YES Ship on: 13-SEP-2016
 Sampling Kit Shipped: YES On: 14-SEP-2016
 Sampling Kit Packed By: KITCHEN_S
 Preservatives Needed: NO
 Date to Receive Samples: 19-SEP-2016
 Received By:

Send Final Report To:

160 Government Center
 Suite 308
 Pensacola, FL 32502-5794
 Attn: Cheryl Bunch

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

Comments: No Bottles needed for UWF Overflow Bacteria
 HF183 tests added to Bottle Group A

Bottle Group A (Water) With 7 Samples:

Bottle Type: BP-1L	Number of Bottles: 7	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Bottle Type: TEST HAS NO	Number of Bottles: 7	Preserved With: ICE
NW-UWF-FC	Template: DEFAULT	(SM 9222 D) Fecal coliforms by membrane filter method by UWF Overflow Laboratory for NWD
Bottle Type: QPCR-P-250ML	Number of Bottles: 14	Preserved With: ICE
PCR-HF183	Template: DEFAULT	(SOP-PCR01) Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction
Bottle Type: P-250ML	Number of Bottles: 7	Preserved With: ICE
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Bottle Type: P-500ML	Number of Bottles: 7	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
Bottle Type: BG-1L	Number of Bottles: 7	Preserved With: ICE
W-SUC-AA-R	Template: DEFAULT	(EPA 8321B) Analysis of sucralose in water matrices by HPLC/MS/MS
W-UHERB-AA	Template: DEFAULT	(USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Bottle Group B (Water) With 3 Samples:

Bottle Type: TEST HAS NO	Number of Bottles: 3	Preserved With: ICE
NW-UWF-ECQ	Template: DEFAULT	(SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by UWF Overflow Laboratory for NWD

Bottle Group C (Water) With 4 Samples:

Bottle Type: TEST HAS NO	Number of Bottles: 4	Preserved With: ICE
NW-UWF-ENT	Template: DEFAULT	(EPA 1600 (MF)) Enterococci by membrane filter method by UWF Overflow Laboratory for NWD

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

Log-in Checklist

RQ- 2016-09-19-15

Shipping Method: Fedex

Date/Time of Receipt: 9/20/16 10:35

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	
Red	1.4	18		✓			8104 1261 7190
Red	0.9	12		✓			8104 1261 7129
Red	0.1	12		✓			8104 1261 7180

*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					

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

**Acid Preserved Samples: pH ≤ 2.0? Yes ☒ No ☐ NA ☐ Init: W

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes ☐ No ☒ NA ☐ Init: W

Coolers Unpacked/Checked by: W Date: 9/20/16 NCRs (Y/N)? N

Event ID: NW-DIST-2016-09-20-01 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

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: