

**DRINKING WATER MICROBIAL SAMPLE COLLECTION
& LABORATORY REPORT FORMAT**

(62-550.730 Reporting Format Effective 01/95, Revised 02/2010)

FLOWERS

**CHEMICAL
LABORATORIES
INCORPORATED**



571 NW Mercantile Place, Suite 111, Port St. Lucie FL 34986
Phone: 772-343-8006 Fax: 772-343-8089

FLDOH Lab Certification #E86562

Report Number: 410656 Subcontract Lab ID: _____

Analysis Requested: (check all that apply then circle appropriate selection below)

- Total Coliform/*E. coli* Total Coliform/Fecal Enterococci
 Coliphage HPC Other: _____

Lab Receipt Date & Time: 8/22/19 1535
Analysis Date & Time: 8-22-19 4:45P
Sample Acceptance Criteria: _____
Sample Preservation: On Ice Not On Ice 2.9 °C
Disinfectant Check: Not Detected _____ mg/L
This sample does not meet the following NELAC requirements: _____

Public Water System (PWS) Name: City of Cocoa

PWS I.D. # 3050223

PWS Address 351 Shearer Blvd.

City Cocoa

PWS or PWS Owner's Phone # 321-639-7670

Fax # 321-723-1205

Collector: D. James/ Aquatest Services, Inc.

Collector's Phone # 321-728-5789

Type of Supply (check only one)

- Community Water System Non-Transient Non-community Water System Transient Non-community Water System
 Limited Use System Bottled Water Private Well Swimming Pool Other _____

Reason for Sampling: (check all that apply) Cambridge Elementary Magnet School, Cocoa

- Distribution Routine Distribution Repeat Raw (triggered or assessment) Raw (triggered or assessment) additional Well Survey
 Clearance Replacement (also check type of sample being replaced) Boil Water Notice Other _____

Sample Collection Date: 08/21/19

A = Absent, P = Present, C = Confluent Growth, TNTC = Too Numerous To Count

To be completed by collector of sample						To be completed by lab				
Sample Number	Sample Point (Location or Specific Address)	Collection Time	Sample Type ¹	Disinfect Res'd (mg/L)	pH	Method: <input checked="" type="checkbox"/> Colilert18				
						Non Coliform	Total Coliform	Fecal, E. coli Enterococci	Q ¹	Lab Sample#
19154-1	S.P. #1 101C – Clinic Water Fountain	1035	S	0.7			A	A		Dw1
19154-2	S.P. #2 014 – Kitchen Sink	1045	S	1.0			A	A		Dw2
19154-3	S.P. #3 Classroom 051 – Sink	1055	S	1.0			A	A		Dw3
19154-4	S.P. #4 Classroom 045 - Sink	1105	S	1.0			A	A		Dw4

Average of disinfectant residuals for distribution routine and repeat samples²:

²Complete for community and non-transient non-community systems serving populations up to and including 4,900. Do not include raw or plant samples in the average.

Free chlorine or Total chlorine (circle one).

Disinfectant Residual Analysis Method: DPD Colorimetric Other: _____
Person performing disinfectant analysis is: Employed by DEP or DOH
 A certified operator # _____ Employed by a certified lab
 Supervised by cert operator # _____ Authorized representative of water supplier

Unless otherwise noted, all tests are performed in accordance with NELAC standards, and the results relate only to the samples.

Date & time PWS notified by lab of positive results: _____

Date & time DEP/DOH notified by lab of positive results: _____

Date Report Issued: _____

Lab Signature: _____

Title: Technical Director or Lab Designee

Name and Mailing Address of Person to Receive Report

Aquatest Services, Inc.
597 Chippewa Avenue NE
Palm Bay, Florida 32907

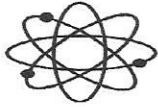
DEP/DOH USE ONLY

- Satisfactory
 Incomplete Collection Information
 Repeat Samples Required
 Replacement Samples Required

Date Reviewed by DEP/DOH: _____

DEP/DOH Reviewing Official: _____

¹DEP Sample Type Codes: D = Distribution (Routine Compliance); C = Repeat or Check; R = Raw; N = Entry to Distribution; P = Plant Tap; S = Special (clearance, etc.)



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812 SW Harvey Green Dr, Madison, FL 32340
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

Phone: 407-339-5984 E83018 (Main Lab)
Phone: 772-343-8006 E86562 (South Lab)
Phone: 850-973-6878 E82405 (North Lab)
Phone: 305-743-8598 E35834 (Keys Lab)

Aquatest Services, Inc.
597 Chippewa Avenue NE
Palm Bay, FL 32907

PO #: n/a
Client Project #: Cambridge Elementary School
Date Sampled: Aug 21, 2019
Aug 29, 2019; Invoice: 410483

Report Summary

Date Received: Aug 22, 2019

FCL Project Manager: William J. Rogers

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
410483DW1	101C - Clinic WF	EPA200.7	EVB	Main Lab	Drinking Water
		EPA200.8	CLL	Main Lab	
410483DW2	014-Kitchen Sink	EPA200.7	EVB	Main Lab	Drinking Water
		EPA200.8	CLL	Main Lab	
410483DW3	CR 051 Sink	EPA200.7	EVB	Main Lab	Drinking Water
		EPA200.8	CLL	Main Lab	
410483DW4	CR 045 Sink	EPA200.7	EVB	Main Lab	Drinking Water
		EPA200.8	CLL	Main Lab	

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director



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 597 Chippewa Avenue NE
 Palm Bay, FL 32907

PO #: n/a
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 Date Sampled: Aug 21, 2019
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Analysis Report

Lab #:	410483DW1	Sampled:	08/21/19 10:35 AM	Desc:	101C - Clinic WF	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed			
Copper	0.0595	mg/L	1.00	0.00100	0.00200	10412355	EPA200.8	7440-50-8	08/27/19			
Lead	0.00110	mg/L	1.00	0.00100	0.00200	10412355	EPA200.8	7439-92-1	08/27/19			
Iron	0.175	mg/L	1.00	0.0100	0.0200	10412489	EPA200.7	7439-89-6	08/28/19			

Lab #:	410483DW2	Sampled:	08/21/19 10:45 AM	Desc:	014-Kitchen Sink	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed			
Copper	0.00190	mg/L	1.00	0.00100	0.00200	10412354	EPA200.8	7440-50-8	08/27/19			
Lead	0.00100	mg/L	1.00	0.00100	0.00200	10412354	EPA200.8	7439-92-1	08/27/19			
Iron	0.0696	mg/L	1.00	0.0100	0.0200	10412489	EPA200.7	7439-89-6	08/28/19			

Lab #:	410483DW3	Sampled:	08/21/19 10:55 AM	Desc:	CR 051 Sink	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed			
Copper	0.00100	mg/L	1.00	0.00100	0.00200	10412354	EPA200.8	7440-50-8	08/27/19			
Lead	0.00100	mg/L	1.00	0.00100	0.00200	10412354	EPA200.8	7439-92-1	08/27/19			
Iron	0.0659	mg/L	1.00	0.0100	0.0200	10412489	EPA200.7	7439-89-6	08/28/19			

Lab #:	410483DW4	Sampled:	08/21/19 11:05 AM	Desc:	CR 045 Sink	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed			
Copper	0.00250	mg/L	1.00	0.00100	0.00200	10412354	EPA200.8	7440-50-8	08/27/19			
Lead	0.00100	mg/L	1.00	0.00100	0.00200	10412354	EPA200.8	7439-92-1	08/27/19			
Iron	0.0532	mg/L	1.00	0.0100	0.0200	10412489	EPA200.7	7439-89-6	08/28/19			



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Quality Report

Quality Control Batch: 10412354

Blank		Analyst: CLL
Copper	0.00100U	Result Units
Lead	0.00100U	mg/L

Laboratory Control Sample

Copper	Result Units	Spike	%REC	%REC Lim
Lead	0.103	0.100	102.90	80.00-120.00
	0.106	0.100	105.80	80.00-120.00

Matrix Spike

Copper	Result Units	Spike	%REC	%REC Lim	Lab Number
Lead	0.157	0.100	97.50	80.00-120.00	410483DW1
	0.104	0.100	102.50	80.00-120.00	410483DW1

Matrix Spike Duplicate

Copper	Result Units	Spike	%REC	%REC Lim	RPD
Lead	0.149	0.100	89.80	80.00-120.00	5.03
	0.100	0.100	99.20	80.00-120.00	3.24
					20.00
					20.00

Quality Control Batch: 10412355

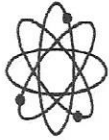
Blank		Analyst: CLL
Copper	0.00100U	Result Units
Lead	0.00100U	mg/L

Laboratory Control Sample

Copper	Result Units	Spike	%REC	%REC Lim
Lead	0.103	0.100	102.90	80.00-120.00
	0.106	0.100	105.80	80.00-120.00

Matrix Spike

Copper	Result Units	Spike	%REC	%REC Lim	Sample	Lab Number
Lead	0.146	0.100	86.80	80.00-120.00	0.0595	410483DW1
	0.106	0.100	105.10	80.00-120.00	0.00110	410483DW1



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Quality Control Batch: 10412355

Matrix Spike Duplicate

	Analyst: CLL	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Copper	0.139	mg/L	0.100	79.90	80.00-120.00	0.0595	4.83	20.00	
Lead	0.100	mg/L	0.100	99.10	80.00-120.00	0.00110	5.81	20.00	

Quality Control Batch: 10412489

Blank
Iron

Laboratory Control Sample
Iron

Matrix Spike
Iron

Matrix Spike Duplicate
Iron

	Analyst: EVB	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	RPD	RPD Lim
Blank	0.0100U	mg/L	5.00	107.32	80.00-120.00	0.175	410483DW1			
Laboratory Control Sample	5.37	mg/L	5.00	95.38	80.00-120.00	0.175				
Matrix Spike	4.94	mg/L	5.00	94.24	80.00-120.00	0.175				
Matrix Spike Duplicate	4.89	mg/L	5.00	94.24	80.00-120.00	0.175				



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Narrative Report

Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted.

Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

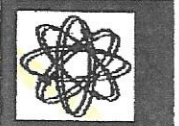
Check Box That Applies To Your Location

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 481 Newburyport Ave.
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 Fax: 305-743-6598



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Client: Aquatest Services Project Name: Cambridge Elementary School P.O.#:
 Address: 321-728-5789 Client Contact: D James FAX:

Phone: 321-728-5789 FCL Project Manager: E-MAIL:

Requested Due Date: 10 Day Standard OR MM/DD/YY Rush Charges May Apply

Sampler Signature: D James Date Sampled: 8-21-19 Pick-Up Fee: \$ Vehicle Surcharge: \$ Sampling Fee: \$

Preservatives: None ANALYSES REQUEST: Lead/Cu COMMENTS: 19154

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	PRESERVATIVES				ANALYSES REQUEST	COMMENTS	Total # Containers
						NH ₄ ⁺	H ₂ SO ₄	HNO ₃	HCl			
1	1012-Clance Water Fountain	8/21	1035	DW	410483DW1							
2	014-Kitchen Sink	"	1045	"	DW2							
3	Classroom 051 Sink	"	1055	"	DW3							
4	Classroom 045 Sink	"	1105	"	DW4							
5												
6												
7												
8												
9												
10												

Relinquished By / Affiliation: Date: Time: Accepted By / Affiliation: JGC Date: 8/23 9:45

Relinquished By / Affiliation: for Viapls 8/21 1600 Date: 8/21 1550 Time: Accepted By / Affiliation: JGC Date: 8/23 9:45

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