



ENVIROWORX
OPERATIONS MANAGEMENT

Received

SEP 15 2020

Coastal District
EPD

September 14, 2020

Mr. Stephen Wurtz
Georgia Environmental Protection Division
400 Commerce Center Dr.
Brunswick, Ga. 31523

RE: Effingham County- 222 Timberlake Dr.- Subdivision Water Pressure Complaint

Dear Mr. Wurtz,

This letter is to formalize a narrative regarding the reported pressure issue in the Timberlake Subdivision located off Horse Pen Rd. in unincorporated Effingham County. On Sunday, August 16, 2020, the Savannah Industrial and Domestic Surface Water Facility experienced an issue with one of their booster pumps servicing Effingham County. This issue led to a reduced pressure within the county, but was within acceptable limits and state requirements for fire flow (>20 PSI). The lowest reported pressure at the largest user, Effingham Power was 28 PSI as it was reported to our field supervisor Adam Parker. During this event, residents of the Timberlake Subdivision experienced a significant reduction in pressure at their homes and upon further investigation, it was found that every house was equipped with a pressure reducing valve on the customer's side of the meter which would further reduce the pressure by 10-12 PSI and reduce flow into the house by 75%. In an effort to prove this issue, our team removed one PRV at 222 Timberlake Dr. and noted a flow increase to the residence by almost 3 times.

After testing pressure at the fire hydrant at the beginning of the neighborhood as well as the pressure at the water meter, we proved to the State EPD that these PRV installations negatively impact pressure within these houses at all times and even more so when there is a drop in system pressure.

As required by the state, (2) two special BAC-T samples were taken at the residence (222 Timberlake Dr.) and another sample within the system. The sample at the residence indicated a positive total coliform result triggering repeat samples up and downstream of the site. A total of (6) six samples were taken throughout the system including the original site and it's respective up and downstream. Only the original residence at 222 Timberlake had another positive result for total coliform. Other



ENVIROWORX OPERATIONS MANAGEMENT
480 Edsel Drive Suite 100
Richmond Hill, Georgia 31324
Tel: 912-756-3803 Fax: 912-756-5882



ENVIROWORX
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samples indicated that the rest of the system was fine, but there may be an issue at the residence itself past the meter.

It was at this time that we notified the resident of the result and recommended to her that until results come back negative or the problem is fixed she should boil her water prior to consuming.

To prove that the issue was localized to only that residence, we did (2) two more samples, one at the discharge of the meter and again at the house at 222 Timberlake Dr. The results of both tests were negative, and once reported to the state, we were advised that we have satisfied their requirements in confirming the safety of the water supply. We have since notified the resident that she does not have to boil her water any longer.

I have attached all laboratory analysis for your records. Please let me know if you have any questions or concerns.

Sincerely,

Charles Heino, MPA

Director of Municipal Operations



ENVIROWORX OPERATIONS MANAGEMENT
480 Edsel Drive Suite 100
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**Report To:**

Page 2 of 3

Charles Heino
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20I011
Report Print Date: 9/3/20 15:37
Chain of Custody Number: 082806

Project Name : Drinking Water
Location : 222 Timberlake Dr., Metter, GA
Analyzing Lab: Spectrum Laboratories

Lab ID: S20I011-01
Client Sample ID: 090120-BAC
Matrix: Water

Collection Date: 09/01/20 15:30
Received Date: 09/01/20 16:16
Collected By: Charles Heino

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Microbiology

Coliform-Total (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	09/01 16:27	09/02 17:00	CR
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Florida-Spectrum Environmental Services, Inc.
1460 W. McNab Road,
Fort Lauderdale, FL 33309

Spectrum Laboratories
180 Airport Park Drive
Garden City, GA 31401

Pembroke Laboratory
528 Gooch Rd.
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Big Lake Laboratory
610 Parrot Ave. N.
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Lakeland Laboratories
1910 Harden Blvd, Ste 101
Lakeland, FL 33803



Report To:

Page 3 of 3

Charles Heino
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20I011
Report Print Date: 9/3/20 15:37
Chain of Custody Number: 082806

Project Name : Drinking Water
Location : 222 Timberlake Dr., Metter, GA
Analyzing Lab: Spectrum Laboratories

Notes and Definitions

Y2	The temperature of the cooler/sample was >10 C. The sample was not received on ice. No evidence of refrigeration was present.
Absent	Absent
2	Samples containers were not properly labeled.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
Absent	For coliform analysis, the target organism was not detected.
Present	For coliform analysis, the target organism was detected.

QC = Data Qualifier Code as defined by DEP 62-160.

MDL = Method Detection Limit: The minimum concentration that can be measured and reported with 99 percent confidence that the concentration is greater than zero, but the exact concentration cannot be reliably quantified.

PQL = Practical Quantitation Limit: the minimum concentration of an analyte (substance) that can be measured with a high degree of confidence that the analyte is present at or above that concentration.

Unless otherwise indicated, soil results are reported on actual (wet) weight basis.

Analyses that are not NELAP certified are designated with a "-".

The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Christine M. Riddle

Laboratory Manager

NELAP Certification #E87671
Georgia EPD/DNR #833
Tel: 912.238.5050 Fax: 912.234.4815
E-mail: c.riddle@flenviro.com

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**Report To:**

Page 2 of 3

Charles Heino
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20I003
Report Print Date: 9/3/20 15:38
Chain of Custody Number: 082777

Project Name : Drinking Water
Location : 222 Timberlake Dr., Guyton, GA
Analyzing Lab: Spectrum Laboratories

Lab ID: S20I003-01
Client Sample ID: 222 Timberlake Drive
Matrix: Water

Collection Date: 08/31/20 15:30
Received Date: 09/01/20 08:50
Collected By: Charles Heino

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Microbiology

E. Coli (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	09/01 12:40	09/02 12:45	JB
Coliform-Total (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	09/01 12:40	09/02 12:45	JB

**Report To:**

Page 3 of 3

Charles Heino
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20I003
Report Print Date: 9/3/20 15:38
Chain of Custody Number: 082777

Project Name : Drinking Water
Location : 222 Timberlake Dr., Guyton, GA
Analyzing Lab: Spectrum Laboratories

Notes and Definitions

Absent	Absent
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
Absent	For coliform analysis, the target organism was not detected.
Present	For coliform analysis, the target organism was detected.

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Christine M. Riddle

Laboratory Manager

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Lakeland Laboratories
1910 Harden Blvd, Ste 101
Lakeland, FL 33803

WORK ORDER # 520H170



Doc. Ctrl: 040119-003
Date: 8/15/19 Rev. 2

CHAIN OF CUSTODY RECORD

15160 W. McNeil Road, Ft. Lauderdale, FL 33309
Tel: 954.366.1234
Fax: 954.366.1235
Email: info@floridaspectra.com
Website: www.floridaspectra.com

TELEPHONE: 954.366.1234
FAX: 954.366.1235
EMAIL: info@floridaspectra.com
WEBSITE: www.floridaspectra.com

DUE DATE Requested
082768
RUSH RESERVATION
Rush Surcharges apply
Page 1 of 4

Received

SEP 15 2020

Coastal District
EPD

Report to: **COM**
Company name: **COM**
Invoice to: **COM**
Purchase Order #
Report to Address:
Invoice to Address:
Site Address:
Location:
Fax:
Email:

Project Name: **520H170**
Project Number: **520H170**
Contract Number: **520H170**
Sample Number: **520H170**
Affiliation: **COM**
Sampler Signature: *[Signature]*
Number of Containers Received: **1**
Letter Suffices: **A-?**

ORDER #	Sample ID	Date Sampled	Time Sampled	Matrix	Bottle & Pres.	Combo Codes	Number of Containers Received	Letter Suffices	Analysis Required	Field Tests
				DW SW GW WW S SED HW BIO SEA OIL X AIR						T E M P H C O N D I T I O N

01	222 Timber-	08-25-20	1300	DW	BT		1	A	✓	
02	late Dr.									
	Left Station	08-25-20	1315	DW	BT		1	A	✓	
	Timber View									

3										
4										
5										
6										
7										
8										
9										
10										

Special Comments: **Stat mandated sample**
"I waive TNI protocol" (emergency) (sign here) >
QA/QC Report Needed? Yes No (additional charge)

Deliverables:
Sample Custody & Field Components
Received on: **08-25-20**
Temp as received: **22.6°C**
Custody seals? **Y**
RAD-9: **GUN-2**
FIELD TIME: **2**
Sampling: **hrs** **hrs** **hrs**
Misc. Charges: **hrs** **hrs**
Signature: *[Signature]*
Received by: **ESSES**
Relinquished by: **ESSES**
Received by: **ESSES**
Relinquished by: **ESSES**
www.floridaspectra.com
COC Page **25th** of **1516**

**Report To:**

Page 2 of 4

Adam Parker
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20H170
Report Print Date: 8/26/20 16:50
Chain of Custody Number: 082768

Project Name : Drinking Water
Location : Timberlake
Analyzing Lab: Spectrum Laboratories

Lab ID: S20H170-01
Client Sample ID: 222 Timberlake Dr.
Matrix: Water

Collection Date: 08/25/20 13:00
Received Date: 08/25/20 15:16
Collected By: Adam Parker

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Microbiology

E. Coli (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	08/25 15:54	08/26 16:48	JB
Coliform-Total (Presence-Absence)	Present		Pres-Abs	1	1.00	1.00	SM9223B	08/25 15:54	08/26 16:47	JB

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Lakeland, FL 33803

**Report To:**

Page 3 of 4

Adam Parker
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20H170
Report Print Date: 8/26/20 16:50
Chain of Custody Number: 082768

Project Name : Drinking Water
Location : Timberlake
Analyzing Lab: Spectrum Laboratories

Lab ID: S20H170-02
Client Sample ID: Lift Station Timberview
Matrix: Water

Collection Date: 08/25/20 13:15
Received Date: 08/25/20 15:16
Collected By: Adam Parker

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Microbiology

E. Coli (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	08/25 15:54	08/26 16:48	JB
Coliform-Total (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	08/25 15:54	08/26 16:47	JB

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**Report To:**

Page 4 of 4

Adam Parker
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20H170
Report Print Date: 8/26/20 16:50
Chain of Custody Number: 082768

Project Name : Drinking Water
Location : Timberlake
Analyzing Lab: Spectrum Laboratories

Notes and Definitions

Y2	The temperature of the cooler/sample was >10 C. The sample was not received on ice. No evidence of refrigeration was present.
Present	Present
Absent	Absent
2	Samples containers were not properly labeled.
1	The chain of custody was not complete. Laboratory personnel completed the COC for the client.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
Absent	For coliform analysis, the target organism was not detected.
Present	For coliform analysis, the target organism was detected.

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The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNi/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Christine M. Riddle

Laboratory Manager

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**Report To:**

Page 2 of 8

Charles Heino
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20H201
Report Print Date: 8/28/20 16:51
Chain of Custody Number: 082763

Project Name : Drinking Water
Location : Timberlake
Analyzing Lab: Spectrum Laboratories

Lab ID: S20H201-01
Client Sample ID: 142 Willow Lift Station
Matrix: Water

Collection Date: 08/27/20 13:59
Received Date: 08/27/20 15:18
Collected By: Adam Parker

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Microbiology

Coliform-Total (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	08/27 15:40	08/28 15:45	CR
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**Report To:**

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Charles Heino
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20H201
Report Print Date: 8/28/20 16:51
Chain of Custody Number: 082763

Project Name : Drinking Water
Location : Timberlake
Analyzing Lab: Spectrum Laboratories

Lab ID: S20H201-02
Client Sample ID: Timberlake Lift Station Down
Matrix: Water

Collection Date: 08/27/20 13:51
Received Date: 08/27/20 15:18
Collected By: Adam Parker

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Microbiology

Coliform-Total (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	08/27 15:40	08/28 15:45	CR
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Florida-Spectrum Environmental Services, Inc.
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Lakeland, FL 33803

**Report To:**

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Charles Heino
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20H201
Report Print Date: 8/28/20 16:51
Chain of Custody Number: 082763

Project Name : Drinking Water
Location : Timberlake
Analyzing Lab: Spectrum Laboratories

Lab ID: S20H201-03
Client Sample ID: 224 Timberlake Drive
Matrix: Water

Collection Date: 08/27/20 14:12
Received Date: 08/27/20 15:18
Collected By: Adam Parker

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Microbiology

Coliform-Total (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	08/27 15:40	08/28 15:45	CR
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Lakeland, FL 33803

**Report To:**

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Charles Heino
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20H201
Report Print Date: 8/28/20 16:51
Chain of Custody Number: 082763

Project Name : Drinking Water
Location : Timberlake
Analyzing Lab: Spectrum Laboratories

Lab ID: S20H201-04
Client Sample ID: 222 Timberlake Drive
Matrix: Water

Collection Date: 08/27/20 14:18
Received Date: 08/27/20 15:18
Collected By: Adam Parker

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Microbiology

Coliform-Total (Presence-Absence)	Present		Pres-Abs	1	1.00	1.00	SM9223B	08/27 15:40	08/28 15:45	CR
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E. coli was found to be Absent. CR 08/28/2020

**Report To:**

Page 6 of 8

Charles Heino
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20H201
Report Print Date: 8/28/20 16:51
Chain of Custody Number: 082763

Project Name : Drinking Water
Location : Timberlake
Analyzing Lab: Spectrum Laboratories

Lab ID: S20H201-05
Client Sample ID: 218 Timberlake Drive
Matrix: Water

Collection Date: 08/27/20 14:25
Received Date: 08/27/20 15:18
Collected By: Adam Parker

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Microbiology

Coliform-Total (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	08/27 15:40	08/28 15:45	CR
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**Report To:**

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Charles Heino
EOM Public Works, LLC
480 Edsel Drive Suite 100
Richmond Hill GA, 31324

Work Order Number: S20H201
Report Print Date: 8/28/20 16:51
Chain of Custody Number: 082763

Project Name : Drinking Water
Location : Timberlake
Analyzing Lab: Spectrum Laboratories

Lab ID: S20H201-06
Client Sample ID: Timberlake Lift Station Up
Matrix: Water

Collection Date: 08/27/20 14:05
Received Date: 08/27/20 15:18
Collected By: Adam Parker

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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Microbiology

Coliform-Total (Presence-Absence)	Absent	U	Pres-Abs	1	1.00	1.00	SM9223B	08/27 15:40	08/28 15:45	CR
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**Report To:**

Page 8 of 8

Charles Heino
EOM Public Works, LLC
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Richmond Hill GA, 31324

Work Order Number: S20H201
Report Print Date: 8/28/20 16:51
Chain of Custody Number: 082763

Project Name : Drinking Water
Location : Timberlake
Analyzing Lab: Spectrum Laboratories

Notes and Definitions

Present	Present
Absent	Absent
3	Chain of custody and sample labels do not agree.
2	Samples containers were not properly labeled.
1	The chain of custody was not complete. Laboratory personnel completed the COC for the client.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
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Christine M. Riddle

Laboratory Manager

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Georgia EPD/DNR #833
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E-mail: c.riddle@flenenviro.com

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Spectrum Laboratories
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