

Bacteriological Analysis Sample Summary

					ual Samı	ol(es page	it you have a total coliform
								zed your samples to SCDES no
results	to Bacte	riologica	IRpts@d	es.sc.go	/	_		
								PWSID-(7-digit permit #)
								PWS NAME
								COMPLIANCE PERIOD (Mon-Year OR Qtr-Year) [i.e.; Aug-2018 or 2nd Q- 2018]
LY			MONTH	ILY				CYCLE (select one)
						İ	CHLOR	RINE RESIDUAL
							LABID ((5-digit code for the certified lab analyzing ne residual)
								# OF SAMPLES COLLECTED NALYZED
							# OF IN	IITIAL ROUTINE TC+ SAMPLES
							# OF IN	IITIAL ROUTINE EC+ SAMPLES
								DD CODE FOR TOTAL DRM ANALYSIS
							METHO ANALY:	DD CODE FOR <i>E. COLI</i> SIS
							LABID ((5-digit code for the certified lab analyzing les)
					PREPA	4 F	RED BY	
					DATE			
	samp	this form and the ten (10) days	this form and the final rein ten (10) days after the	this form and the final report from the fina	this form and the final report from the cert in ten (10) days after the end of the complete results to BacteriologicalRpts@des.sc.gov	this form and the final report from the certified lab in ten (10) days after the end of the compliance per results to BacteriologicalRpts@des.sc.gov	this form and the final report from the certified lab the inten (10) days after the end of the compliance period results to BacteriologicalRpts@des.sc.gov LY MONTHLY PREPAR	this form and the final report from the certified lab that analy in ten (10) days after the end of the compliance period. Tesults to BacteriologicalRpts@des.sc.gov Tesults to BacteriologicalRpts@des.sc.gov CHLOR LABID the chlori TOTAL AND AN # OF IN METHO COLIFO METHO ANALY LABID the samp PREPARED BY

The D-1974 form and the final report from the certified lab that analyzed your sample(s) is due to be reported to SCDES on the 10th of each month. After the 10th of the month, your report is late, and a monitoring and reporting violation could be issued. You should report your results to BacteriologicalRpts@des.sc.gov.

More than one occurrence of failure to submit your reporting form within a 12-month period could result in Enforcement action and stipulated penalties.

Format your subject line of your email: SC###### Water System Name – Month/Year, which helps identify, track and/or search for the public water system's 7-digit permit number, water system name and month/year you are reporting for compliance. I.E.: Subject line if reporting monthly and reporting August 2018 results would be formatted as: SC1234567 ABC Water System – August 2018; Subject line if reporting quarterly and reporting 3rd quarter 2018 results would be formatted as: SC1234567 ABC Water System –3rd Q 2018

Within 24 hours of learning of a total coliform-positive (TC+) sample result, REPEAT samples must be collected and analyzed for total coliforms:

- One REPEAT sample must be collected from the same tap as the TC+ sample.
- One REPEAT sample must be collected within five service connections upstream of the TC+ sample.
- One REPEAT sample must be collected within five service connections downstream of the TC+ sample.
- If the system is served by Groundwater, then a Triggered Source sample must be collected prior to treatment from each source in use at the time the total coliform-positive sample was collected.

The number of samples taken PER WELL must equal the number of positive TC samples. If you collected three TC+ samples, then three well samples must be taken at EACH WELL that was in service at the time.

The triggered source water sample must be analyzed for the presence of *E. coli*. If any triggered source water sample is *E. coli*-positive, the Groundwater system (GWS) must either take corrective action, as directed by the state, or the GWS must take 5 additional source water samples within 24 hours.

If the GW system Purchases some or all their water, they must notify the wholesale system(s) within 24 hours

If any REPEAT sample is TC+

- The system must analyze that total coliform-positive culture for E. coli.
- The system must collect another set of REPEAT samples, as before, <u>unless</u> the E. coli MCL has been violated or an assessment has been triggered.

For a system on quarterly monitoring, a TC+ result requires a minimum of three ROUTINE samples be collected the following month.

CALL SCDES on the same day you learn of an EC+ result or no later than the end of the next business day if the result(s) were reported from the lab to the water system after business hours.



Bureau of Water

Monthly Reporting Form for Disinfection (Chlorine/Chloramine)

in the Distribution System

	PWSID	SC39	10003		Reporting Period	01/2025
	PWS Name		Liberty, City of		This form is inte by a PWS purcha water.	
Ce	rtified Lab #	04108		Certified Lab # fo		
	а	b	С	d	е	f
Day	No. of Sites Disinfectant Residual was Measured	No. of Sites Disinfect. Residual NOT Measured, but HPC Measured	No. of Sites where Disinfectant Residual NOT Detected & HPC NOT Measured	No. of Sites where Disinfectant Residual was NOT Detected and HPC > 500/mL	No. of Sites Disinfectant Residual NOT Measured and HPC > 500/mL	Average Disinfectant Residual (mg/L)
1						
2						
3						
4 5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15 16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26 27						
28	9	0	0	0	0	0.71
29	,	· · ·	<u> </u>		J	0.7 1
30						
31						
Total	9	0	0	0	0	
	а	b	С	d	е	f
					Sum of Average Disinfectant Residual Results (g)	0.71
Residu	ual Criteria	Distribution System	em Disinfectant		# of Days Measured in the Month (h)	1
V = (•	(a + b) x 100 = ous Month: V =	0		Average Residual (g/h)	0.71
_						
Prepare	d by (Signature	e/Title/Date): Amy L	Anderson, Labora	tory Director, 1/30/2	25	





January 29, 2025

City of Liberty 119 West Front Street Liberty, SC 29657

Re: Laboratory Workorder 2501138

Dear Sir / Madam:

Goldie Associates (GA) appreciates the opportunity to provide your laboratory services. Attached is the original data report for the sample(s) referenced above; the report has been prepared and reviewed in accordance with GA's standard operating procedures. The report may include subcontract analytical report(s), which are included in full and are an incorporated component of the full GA report. This report may only be reproduced in full.

Unless noted otherwise within the Qualifiers/Notes section(s) of the Certificate of Analysis or in an attached Project Case Narrative, no problems were encountered during the analyses and all associated Quality Controls were within established limits. Our certifications are as follows:

SC Laboratory ID: 04108001

Please note that any reported flow and/or subsequent mass calculations are provided as a convenience to the Client and are not considered certifiable laboratory parameters; it is the Client's responsibility to verify the accuracy and reporting requirements for any such reported data.

Please contact us if you have questions or require any additional information.

Sincerely,

Goldie Associates

Amy L. Anderson Laboratory Manager

Am L Indean

Phone: 864-882-8194



Laboratory ID: SC04108001 **Report Date:** 01/29/25 11:45

Client: City of Liberty Sample ID: 2501138A

Facility: Liberty, City of Collected: 01/28/25 10:10 Project: 1842.001.00 Matrix: Drinking Water

Site: 13 Cooper St. Subtype:

Analyte	Result	Qual	MDL	RL	Unit	Batch	DF	Date Analyzed	Analyst
SM 9223 B-2016									
E. coli	Absent					2025-139	1	01/28/25 16:42	BPL
Total Coliform	Absent					2025-140	1	01/28/25 16:42	BPL
SM 4500CL G-2011									
Residual Chlorine	0.66		0.05	0.05	mg/L		1	01/28/25 10:13	BPL



Laboratory ID: SC04108001 **Report Date:** 01/29/25 11:45

Client: City of Liberty Sample ID: 2501138B

Facility: Liberty, City of Collected: 01/28/25 10:30 Project: 1842.001.00 Matrix: Drinking Water

Site: 115 Maplecroft St. Subtype:

Analyte	Result Qual MDL RL Unit		Batch	DF	Date Analyzed	Analyst			
SM 9223 B-2016									
E. coli	Absent					2025-139	1	01/28/25 16:42	BPL
Total Coliform	Absent					2025-140	1	01/28/25 16:42	BPL
SM 4500CL G-2011									
Residual Chlorine	1.43		0.05	0.05	mg/L		1	01/28/25 10:33	BPL



Laboratory ID: SC04108001 **Report Date:** 01/29/25 11:45

Client: City of Liberty Sample ID: 2501138C

Facility: Liberty, City of Collected: 01/28/25 10:45
Project: 1842.001.00 Matrix: Drinking Water

Site: 6 Wilson Ave. Subtype:

Analyte	Result	Qual	MDL	RL	Unit	Batch	DF	Date Analyzed	Analyst
SM 9223 B-2016									
E. coli	Absent					2025-139	1	01/28/25 16:42	BPL
Total Coliform	Absent					2025-140	1	01/28/25 16:42	BPL
SM 4500CL G-2011									
Residual Chlorine	0.76		0.05	0.05	mg/L		1	01/28/25 10:48	BPL



Laboratory ID: SC04108001 **Report Date:** 01/29/25 11:45

Client: City of Liberty Sample ID: 2501138D

Facility: Liberty, City of Collected: 01/28/25 11:00 Project: 1842.001.00 Matrix: Drinking Water

Site: 5 Clay St. Subtype:

Analyte	Result	Result Qual MDL RL Ur		Unit	Batch	DF	Date Analyzed	Analyst	
SM 9223 B-2016									
E. coli	Absent					2025-139	1	01/28/25 16:42	BPL
Total Coliform	Absent					2025-140	1	01/28/25 16:42	BPL
SM 4500CL G-2011									
Residual Chlorine	0.98		0.05	0.05	mg/L		1	01/28/25 11:03	BPL



Laboratory ID: SC04108001 **Report Date:** 01/29/25 11:45

Client: City of Liberty Sample ID: 2501138E

Facility: Liberty, City of Collected: 01/28/25 11:10 Project: 1842.001.00 Matrix: Drinking Water

Site: 15 Tillman St. Subtype:

Analyte	Result	Qual	MDL	RL	Unit	Batch	DF	Date Analyzed	Analyst
SM 9223 B-2016									
E. coli	Absent					2025-139	1	01/28/25 16:42	BPL
Total Coliform	Absent					2025-140	1	01/28/25 16:42	BPL
SM 4500CL G-2011									
Residual Chlorine	0.16		0.05	0.05	mg/L		1	01/28/25 11:13	BPL



Laboratory ID: SC04108001 **Report Date:** 01/29/25 11:45

Client: City of Liberty Sample ID: 2501138F

Facility: Liberty, City of Collected: 01/28/25 12:15
Project: 1842.001.00 Matrix: Drinking Water

Site: 109 Griffin Cir. Subtype:

Analyte	Result	Qual	MDL	RL	Unit	Batch	DF	Date Analyzed	Analyst
SM 9223 B-2016									
E. coli	Absent					2025-139	1	01/28/25 16:42	BPL
Total Coliform	Absent					2025-140	1	01/28/25 16:42	BPL
SM 4500CL G-2011									
Residual Chlorine	0.49		0.05	0.05	mg/L		1	01/28/25 12:18	BPL



Laboratory ID: SC04108001 **Report Date:** 01/29/25 11:45

Client:City of LibertySample ID:2501138GFacility:Liberty, City ofCollected:01/28/25 12:25Project:1842.001.00Matrix:Drinking Water

Site: 118 Norman St. Subtype:

Analyte	Result Qual MDL RL Unit Batc		Batch	DF	Date Analyzed	Analyst			
SM 9223 B-2016									
E. coli	Absent					2025-139	1	01/28/25 16:42	BPL
Total Coliform	Absent					2025-140	1	01/28/25 16:42	BPL
SM 4500CL G-2011									
Residual Chlorine	1.66		0.05	0.05	mg/L		1	01/28/25 12:28	BPL



Laboratory ID: SC04108001 **Report Date:** 01/29/25 11:45

Client: City of Liberty Sample ID: 2501138H

Facility: Liberty, City of Collected: 01/28/25 12:40 Project: 1842.001.00 Matrix: Drinking Water

Site: 324 Griffin Cir. Subtype:

Analyte	Result	Qual	MDL	MDL RL Unit Batch D		DF	Date Analyzed	Analyst	
SM 9223 B-2016									
E. coli	Absent					2025-139	1	01/28/25 16:42	BPL
Total Coliform	Absent					2025-140	1	01/28/25 16:42	BPL
SM 4500CL G-2011									
Residual Chlorine	0.16		0.05	0.05	mg/L		1	01/28/25 12:43	BPL



Laboratory ID: SC04108001 **Report Date:** 01/29/25 11:45

Client: City of Liberty Sample ID: 2501138I

Facility: Liberty, City of Collected: 01/28/25 12:55
Project: 1842.001.00 Matrix: Drinking Water

Site: 12 Clemson St. Subtype:

Analyte	Result	Qual	MDL	RL	Unit	Batch	DF	Date Analyzed	Analyst
SM 9223 B-2016									
E. coli	Absent					2025-139	1	01/28/25 16:42	BPL
Total Coliform	Absent					2025-140	1	01/28/25 16:42	BPL
SM 4500CL G-2011									
Residual Chlorine	0.08		0.05	0.05	mg/L		1	01/28/25 12:58	BPL

Page: of G&A Project Manager: G&A Client/Project ID #: 4	42.1			Goldie & Associates, Inc. Chain of Custody and Analytical Request										Goldie & Associates, Inc. 210 W. North 2 nd Street Seneca, SC 29678 Phone: (864) 882-8194, Fax: (864) 882-0851 www.goldieassociates.com				
all N	Liberty			Results Hardcop					512								← Preservative Type ⁽⁴⁾	
Address:				Phone:					1	Sar	nple A	Analysis	Requ	ested	(3)	\downarrow		
Sampled Facility Name:				Email:		e (C)	Ξ	(2)	٦									
Collected by: (signature)	L usu	mis		Fax:		Collection Type Grab (G) / Composite (C)	Sample Matrix (1)	Program Area (2)	Olitor									
		Sample (Collection			ollect G)/C	nple	ogran	19									(0)
	Compo	site Start	Composite I	Harvest / Grab		Cr Grab (Sar	Pro	Dial								Notes / Remarks:	Temp on Receipt (°C)
		Time		Time	Client Sample			-	7	16.1		1.00	<u> </u>				(additional space below)	no d
Goldie Laboratory ID	Date	(military)	Date	(military)	Identifier / Descriptor (Outfall 001, Aeration #2, etc)				+ "	Plasti	c (P) /	nd Type Glass (C	or Ea (Exa	mple:	alysis, 2G)	↓	(for wastewater, note influent, effluent, process)	Tem
2501138A			1/28	1010	13 Cooper st	6	2	a	P									11.9
2501138 B			1/28	1030	115 Markeroft de	6	Pw	Dw	18									12.1
2501138C			1/24	1045	6 Wilson St	6	Dw	Dw	IP									11.7
2501138D			1/26	1100	5 Clay st	6	Dw	Da	IP									11.8
2501138E			1/28	1110	15 Tillmangt	G	Dw	Da	IP									12.2
2501138 F			1/29	1215	109 Griffin	6	Du	DW	IP									11.9
Lab Use Only						Subcontract:												
Special Instructions / Com.	ments:			-														
Palinguisha	d By (Signed)		Date	Chain of Cust	ody Signatures	d by (sign	red)				Ds	ate / Time		\exists		Т	urnaround Time	V
1 Bryan	my		1330	1/28	, alii			W		1/2			133	0	Sta	ndard T	FAT (10-15 Business Days)	N NA
	,														5 B	Susiness	Days	Y
													-		2 B	usiness	Days (Prior Authorization)	ed: Y
4					4									1	Ne	xt Busin	ness Day (Prior Authorization)	Cooler Iced:
1.) Matrix Codes: WW=Wastewater, DV 2.) Program Area Codes: CWA=Clean V 3.) Sample Analysis Requested: Parame 4.) Preservative Type: H = Hydrochloric	Vater Act, DW=Safe eter and Analytical r	z Waste, UR=Unregula C 8260B or NH3 4500	ted NH3 C)		N=	= Hydro = Nitric / I= Sodiu	Acid					_ s	= Sulf T= Soo = Unp	dium '	Thiosulfate CW015			

															_			
Page: Z of Z G&A Project Manager:	192.1			Chain	Goldie & Ass					ues	t				Phon	2) se: (864)	oldie & Associates, Inc. 10 W. North 2 nd Street Seneca, SC 29678) 882-8194, Fax: (864) 882-085	1
G&A Client/Project ID#: 18 Client Name: City O		ertv		Results Hardcop	s Delivery (circle one)	Г			ST±	П						ww	w.goldieassociates.com Preservative Type ⁽⁴⁾)
Address:	, P. 3	· //		Phone:	y Email Fax				1		mple A	nalysi	s Requ	uested	(3)	1		
Sampled Facility Name:			Email:			(C)	8	()	T	İ	Ť							
Collected by: Samp Smis			Fax:		Collection Type Grab (G) / Composite (C) Sample Matrix (1)	Aatrix	Program Area (2)	Diform								÷	(0.	
Sample Collection						ple 1	gram	3										
Composite Start Composite H			larvest / Grab		Co Grab (6	San	Pro	10									Temp on Receipt (°C)	
					Client Sample				to								Notes / Remarks: (additional space below)	on Re
Goldie Laboratory ID	Date	Time (military)	Date	Time (military)	Identifier / Descriptor (Outfall 001, Aeration #2, etc)			- +	↓ #			nd Typ Glass (+	(for wastewater, note influent, effluent, process)	Temp
2501138G			1/28	1225	114 Norman	6	De	Du	19									11.1
2501138H	-		1/24	1240	324 Griffin	6	Du	Pw	110									11.5
Z501138 I			1/28	1255	12 Chemison	6	Dw	a	IP									11.8
Lab Use Only							Subcontract:										10.26	
Special Instructions / Com	ments:						, C OIII	zuot.										
																		-
			Chain of Custody Signatures Date / Time Receive				ed by (signed) Date / Time						Turnaround Time					
Jameson Smin 1330		1/24	, alie					1/28/75 1330				Standard TAT (10-15 Business Days)			NA[
· Single							- 00	• •		1-	16		0		5	Business	s Days	z
2					2				-					-				>
3				-	3											Business	Days (Prior Authorization)	lced.
4				4							Next Business Day (Prior Authorization)			Cooler Iced				
Matrix Codes: WW=Wastewater, DW Program Area Codes: CWA=Clean W Sample Analysis Requested: Paramet Preservative Type: H = Hydrochloric	ater Act, DW=Safe ler and Analytical me	Drinking Water Act, I ethod required by pen	RCRA=Solid & Haz v mit (Examples: VOC	Waste, UR=Unregulat 8260B or NH3 4500N	ned NH3 C)	:	N=	Hydro Nitric A	Acid		_			_	S= Suli ST= So J= Unj	dium	Thiosulfate CWO1	5V

Total Chlorine Worksheet

Daily Calibration Check Performed: Y / N

Client:	City of Liberty	DPD Lot #:	A4198	Date	1/28
Project #	1842.1	Meter ID	266659	Lab ID	SC04108

			Comments					
Time	Location / Sample Point	Normal	mal Duplicate RPD (%)		Units	(Note any dilutions needed or other factors affecting analysis)		
1013	13 Cooper st	0.66	08	4.447.	mg/L	250	1138A	
1033	115 Maple croft dr	1.43	148	3.441.	mg/L		B	
1046	36 wilson st	0.76	0.84	10.0%	mg/L		C	
110 3	5 Clay St	0.99	1.03	4.98%	mg/L		D	
1113	15 Tillman	0.16	0.10	17.141.	mg/L		E	
1218	109 Gri Hin Sir	0.49	0.55	11.547.	mg/L		F	
1228	118 Norman St	1.66	1.71	2.977.	mg/L		G	
1243	324 Griffin Cir	0.16	0.19	17.147.	mg/L		Н	
1258	12 Chenson st	0.08	0.09	11.76%	mg/L	V	I	
					mg/L			

Analyst Signature: Brygge Suns

