

Phone: (207) 622-3701

GREATER AUGUSTA UTILITY DISTRICT

Fax: (207) 622-4539

12 Williams Street  
Augusta, ME 04330-5225  
www.augustawater.org

BRIAN TARBUCK  
General Manager

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December 8, 2009

Scott Whitney  
State of Maine, Drinking Water Program  
11 State House Station  
Augusta, ME 04333-0011

Dear Mr. Whitney:

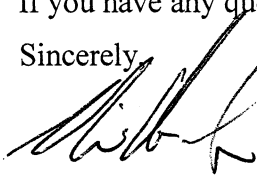
Please find attached the monthly reports for compliance with the Safe Drinking Water Act and Maine's Rules Relating to Drinking Water for the month of November, 2009. You should find the following documents:

1. Fluoridation Report;
2. Total Coliform Monitoring Report;
3. South Well, Brookside Well and Triangle Well pumpage report; and
4. Triangle Station Monthly Operating Report.

These reports are also available here: <http://www.augustawater.org/reports.html>

If you have any questions, please contact me at 622-3701.

Sincerely,



Brian Tarbuck, PE

**Monthly Operating Report**  
**System Type - All GW systems**

System Name: **Greater Augusta Utility District**

PWSID#: **90080**

Designated operator name and ME License #: **Brian Tarbuck**  
**2026**

e-mail address: **btarbuck@augustawater.org**

Reporting period (month and year): **November - 09**

Signature: *[Signature]* Date: **12/8/2009**

**System Information**

Treatment plant/pump station: **Triangle Station**

Community System →

Non-transient Non-community →

Transient Non-Community →

List any new or changed system information (facilities, treatments, sources, operators, address, tele, ect.):

List any operation problems or comments:

**Daily water production**

Date	Mgals pumped	Peak hourly flow	pH	Dis. log inactivation
1	1.38	n/a	7.82	n/a
2	1.59	n/a	7.81	n/a
3	1.85	n/a	7.82	n/a
4	1.40	n/a	7.84	n/a
5	1.51	n/a	7.79	n/a
6	1.84	n/a	7.81	n/a
7	1.37	n/a	7.79	n/a
8	1.55	n/a	7.80	n/a
9	1.39	n/a	7.79	n/a
10	1.78	n/a	7.80	n/a
11	1.60	n/a	7.81	n/a
12	1.64	n/a	7.82	n/a
13	1.88	n/a	7.81	n/a
14	1.50	n/a	7.81	n/a
15	1.63	n/a	7.81	n/a
16	1.72	n/a	7.81	n/a
17	1.72	n/a	7.81	n/a
18	1.75	n/a	7.85	n/a
19	1.63	n/a	7.81	n/a
20	1.90	n/a	7.81	n/a
21	1.48	n/a	7.81	n/a
22	1.57	n/a	7.81	n/a
23	1.78	n/a	7.82	n/a
24	1.35	n/a	7.82	n/a
25	1.73	n/a	7.81	n/a
26	1.37	n/a	7.80	n/a
27	1.52	n/a	7.82	n/a
28	1.26	n/a	7.79	n/a
29	1.64	n/a	7.80	n/a
30	1.60	n/a	7.80	n/a
Summary	<b>47.93</b>		<b>7.81</b>	
	(total)	(avg.)	(avg.)	(min.)

**Chemical usage**

From table below: →

List units: (i.e. lbs, gal)

Calc gal	Hypo gal	NaF lbs	4	5	6	Disinfectant Residual mg/L
1	16	0				1.05
1	13	100				1.18
2	17	0				1.15
1	18	0				0.95
1	13	0				1.15
1	15	100				1.15
2	19	0				1.18
1	15	0				1.17
1	16	100				1.21
1	16	0				1.22
1	19	0				1.22
1	16	100				1.21
1	17	100				1.17
2	19	0				1.22
1	18	0				1.17
0	19	0				1.16
1	15	100				1.19
2	20	0				1.02
2	17	50				1.21
1	22	0				1.27
2	23	0				1.30
1	15	0				1.32
1	19	50				1.29
2	24	100				1.34
1	15	150				1.29
1	19	0				1.23
1	13	0				1.17
1	16	50				1.26
1	13	0				1.27
2	18	100				1.26
Summary	<b>39.46</b>	<b>516</b>	<b>1,100</b>			<b>0.95</b>
	(total)	(total)	(total)	(total)	(total)	(min.)

**Chemicals Used**  
 (report fluoride info on separate fluoride form)

Number	Chemical Name	Purpose	Chemical Strength
1	Calciquest liquid	calcium sequestration / Pb / Cu control	75% polyphosphate
2	Sodium hypochlorite	primary and secondary disinfection	12.50%
3	sodium fluoride	fluoridation	
4			
5			
6			
Disinfectant			

**Summary of Total Coliform Bacteria Rule - please continue to submit complete results**

Number of routine samples taken:	24	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.90

**Monthly Well Production Report**  
**System Type - All GW systems**

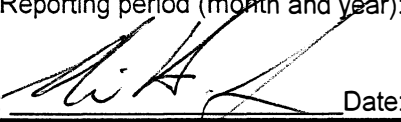
System Name: **Greater Augusta District**

PWSID#: **90080**

Designated operator name and ME License #: **Brian Tarbuck**  
**2026**

e-mail address: **btarbuck@augustawater.org**

Reporting period (month and year): **November - 09**

Signature:  Date: **12/8/2009**

**System Information**

Treatment plant/pump station: **All wells**

Select one

Community System →

Non-transient Non-community →

Transient Non-Community →

List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):

List any operation problems or comments:

This sheet reports production from all three wells at Augusta Water District. This is a supplemental report to the MOR.

**Daily water production (MG)**

Date	Triangle Well	South Well	Brookside Well	Sum
1	0.47	0.25	0.66	1.38
2	0.17	0.58	0.83	1.59
3	0.00	1.05	0.80	1.85
4	0.31	0.69	0.40	1.40
5	0.58	0.10	0.84	1.51
6	0.54	0.51	0.78	1.84
7	0.50	0.04	0.83	1.37
8	0.42	0.32	0.80	1.55
9	0.15	0.41	0.84	1.39
10	0.07	0.91	0.80	1.78
11	0.00	1.07	0.53	1.60
12	0.15	1.06	0.43	1.64
13	0.38	1.04	0.45	1.88
14	0.00	1.07	0.44	1.50
15	0.24	1.07	0.32	1.63
16	0.15	1.06	0.51	1.72
17	0.65	0.92	0.15	1.72
18	0.74	0.62	0.39	1.75
19	0.92	0.48	0.23	1.63
20	0.93	0.87	0.10	1.90
21	0.93	0.49	0.07	1.48
22	0.94	0.63	0.00	1.57
23	0.74	0.61	0.44	1.78
24	0.50	0.00	0.85	1.35
25	0.61	0.32	0.81	1.73
26	0.44	0.10	0.83	1.37
27	0.45	0.36	0.70	1.52
28	0.40	0.00	0.86	1.26
29	0.51	0.33	0.79	1.64
30	0.22	0.71	0.67	1.60
Sum	13.09	17.68	17.16	47.94

**Monthly Fluoride Report**  
**System Type - Fluoride Systems**

System Name: **Greater Augusta Utility District**

PWSID#: **90080**

Reporting period: **November, 2009**

Signature:  Date: **12/8/2009**

**System Information**

Treatment plant/pump station: **Triangle Station**

Fluoride chemical used: **Sodium fluoride**

Notes:

Date	GAUD	Location	HETL
11/19/2009 13:15	1.26	Triangle station	1.20

**Fluoride**

Date	Total production	Gallons of makeup water	Daily Average Residual	Theoretical Calculation
units:	Mgals	gallons	mg / L	mg / L
1	1.38	86	1.09	1.12
2	1.59	95	1.13	1.07
3	1.85	109	1.10	1.06
4	1.40	81	1.11	1.04
5	1.51	95	1.15	1.13
6	1.84	102	1.15	1.00
7	1.37	81	1.03	1.06
8	1.55	89	1.02	1.03
9	1.39	81	1.04	1.04
10	1.78	106	1.07	1.07
11	1.60	94	1.05	1.06
12	1.64	90	1.11	0.99
13	1.88	95	1.04	0.91
14	1.50	80	0.98	0.96
15	1.63	91	1.02	1.00
16	1.72	96	1.02	1.00
17	1.72	87	1.03	0.91
18	1.75	101	1.11	1.04
19	1.63	95	1.11	1.05
20	1.90	100	1.01	0.95
21	1.48	95	1.18	1.15
22	1.57	114	1.32	1.31
23	1.78	122	1.26	1.23
24	1.35	99	1.27	1.32
25	1.73	101	1.18	1.05
26	1.37	98	1.23	1.28
27	1.52	99	1.20	1.17
28	1.26	85	1.25	1.21
29	1.64	109	1.23	1.20
30	1.60	103	1.28	1.16
<b>Avg</b>	<b>1.60</b>	<b>96</b>	<b>1.13</b>	<b>1.08</b>
<b>Min</b>	<b>1.26</b>	<b>80</b>	<b>0.98</b>	<b>0.91</b>
<b>Max</b>	<b>1.90</b>	<b>122</b>	<b>1.32</b>	<b>1.32</b>
<b>Total</b>	<b>47.93</b>	<b>2,873</b>		

Systems that don't use the state lab need to report their distribution system certified lab results here.

Date	Location in the distribution system	Result mg/L

**Notes:**

The average value recorded for the day is reported for compliance.

**Bacteriological Report Form**  
**Utility: Greater Augusta Utility District, PWSID 90080**  
**Greater Augusta Utility District Laboratory, ME012**

I hereby certify that this report is true and correct and that the bacterial analyses reported herein were performed in accordance with the Standard Methods for Water Analysis.

*June Mooney*  
 June Mooney, Water Quality Specialist

Number of samples required: 15  
 Number of samples taken for compliance: 24  
 Number of quality control samples: 1  
 Number of positive samples: 0

Samp. #	Location	Sam. Type	Collected by	Collection date & time	Free Cl <sub>2</sub>	Total Cl <sub>2</sub>	Rec'd in lab	Fluoride (mg/l)	Set up by:	Date & time	Coliform		Method	Lauryl Tryptose			EC 44.5c	HPC 48 hrs
											Present/Absent	MF/COLILERT	24 hr	48 hr	bril. green			
1	WELLHOUSE	DIS	MOONEY	11-3-09/12:00	1.15	1.13	11-3-09/3:00	1.16	MOONEY	11-4-09/8:15	A	COLILERT						
2	WESTERN STA.	DIS	MOONEY	11-3-09/12:40	0.66	0.68	11-3-09/3:00	1.15	MOONEY	11-4-09/8:15	A	COLILERT						
3	GREYBIRCH	DIS	MOONEY	11-3-09/1:10	0.61	0.61	11-3-09/3:00	1.08	MOONEY	11-4-09/8:15	A	COLILERT						
4	QUALITY INN	DIS	MOONEY	11-3-09/1:25	0.39	0.41	11-3-09/3:00	1.04	MOONEY	11-4-09/8:15	A	COLILERT						
5	NORTHWEST STA.	DIS	MOONEY	11-3-09/1:45	0.99	0.99	11-3-09/3:00	1.12	MOONEY	11-4-09/8:15	A	COLILERT						
6	WILLOW ST. STA.	DIS	MOONEY	11-3-09/2:05	0.87	0.89	11-3-09/3:00	1.21	MOONEY	11-4-09/8:15	A	COLILERT						
7	12 WILLIAMS ST.	DIS	MOONEY	11-3-09/2:25	1.05	1.05	11-3-09/3:00	1.18	MOONEY	11-4-09/8:15	A	COLILERT						
8	HOSPITAL ST. STA.	DIS	MOONEY	11-3-09/2:45	0.75	0.76	11-3-09/3:00	1.13	MOONEY	11-4-09/8:15	A	COLILERT						
9	WESTERN STA.	DIS	TANGEMAN	11-9-09/12:38	0.63	0.65	11-9-09/1:45	1.10	TANGEMAN	11-9-09/1:50	A	COLILERT						
10	WELLHOUSE	DIS	TANGEMAN	11-9-09/1:02	1.24	1.22	11-9-09/1:45	1.11	TANGEMAN	11-9-09/1:50	A	COLILERT						
11	NORTHWEST STA.	DIS	TANGEMAN	11-9-09/1:23	1.14	1.15	11-9-09/1:45	1.08	TANGEMAN	11-9-09/1:50	A	COLILERT						
12	HOSPITAL ST. STA.	DIS	TANGEMAN	11-13-09/2:09	0.81	0.80	11-13-09/2:58	1.15	TANGEMAN	11-13-09/2:58	A	COLILERT						
13	12 WILLIAMS ST.	DIS	TANGEMAN	11-13-09/2:32	1.07	1.02	11-13-09/2:58	1.18	TANGEMAN	11-13-09/2:58	A	COLILERT						
14	WELLHOUSE	DIS	MOONEY	11-17-09/10:45	1.23	1.23	11-17-09/11:40	1.21	MOONEY	11-17-09/12:00	A	COLILERT						
15	WESTERN STA.	DIS	MOONEY	11-17-09/11:00	0.60	0.61	11-17-09/11:40	1.07	MOONEY	11-17-09/12:00	A	COLILERT						
16	NORTHWEST STA.	DIS	MOONEY	11-17-09/11:20	1.01	1.02	11-17-09/11:40	1.11	MOONEY	11-17-09/12:00	A	COLILERT						
17	12 WILLIAMS ST.	DIS	MOONEY	11-19-09/1:40	1.07	1.11	11-19-09/2:40	1.20	MOONEY	11-19-09/3:00	A	COLILERT						
18	HOSPITAL ST. STA.	DIS	MOONEY	11-19-09/2:05	0.81	0.84	11-19-09/2:40	1.11	MOONEY	11-19-09/3:00	A	COLILERT						
19	WESTERN STA.	DIS	MOONEY	11-24-09/11:30	0.69	0.69	11-24-09/1:45	1.13	MOONEY	11-24-09/2:15	A	COLILERT						
20	MANCHESTER TOWN OFFICE	DIS	MOONEY	11-24-09/11:45	0.11	0.12	11-24-09/1:45	1.09	MOONEY	11-24-09/2:15	A	COLILERT						
21	WELLHOUSE	DIS	MOONEY	11-24-09/12:10	1.41	1.41	11-24-09/1:45	1.27	MOONEY	11-24-09/2:15	A	COLILERT						
22	NORTHWEST STA.	DIS	MOONEY	11-24-09/12:25	1.34	1.33	11-24-09/1:45	1.36	MOONEY	11-24-09/2:15	A	COLILERT						
23	12 WILLIAMS ST.	DIS	MOONEY	1-24-09/12:45	1.18	1.17	11-24-09/1:45	1.47	MOONEY	11-24-09/2:15	A	COLILERT						
24	HOSPITAL ST. STA.	DIS	MOONEY	11-24-09/1:00	0.84	0.84	11-24-09/1:45	1.21	MOONEY	11-24-09/2:15	A	COLILERT						
*	LAB DISTILLED WATER	SPT	MOONEY	11-30-09/10:40	0.00	0.01	11-30-09/10:40		MOONEY	11-30-09/12:00						COND.=1.34	us/cm	0:4ML