

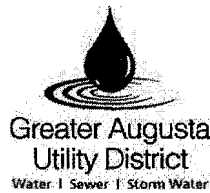
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cwarren@greateraugustautilitydistrict.org

January 8, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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 January, 2018.

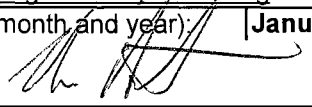
You should find the following documents:

1. Operating report;
2. Water production report;
3. Triangle fluoridation report
4. Riverside fluoridation report; and
5. Togus disinfection report.

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

Sincerely,

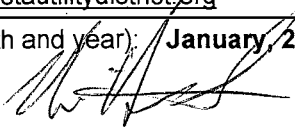
Brian Tarbuck, PE, System Class IV 2026

Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026 btarbuck@greataugustautilitydistrict.org		
Reporting period (month and year):	January - 18		
Signature:		2/8/2018	

Water production, pH and free chlorine residual							Chemical usage					
Triangle Station			Riverside Station				Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons (MGD)	pH		Calc	Hypo	NaF	Calc	Hypo	NaF
							gal	gal	lbs	gal	gal	lbs
1	1.14	7.13	1.2745833	0.57	7.68	1.07	5	13		1.4	6	
2	1.10	7.12	1.30	0.65	7.68	1.06	3	13	100	1.5	7	
3	1.99	7.15	1.25	0.72	7.69	1.06	3	22		1.6	8	
4	1.28	7.03	1.25	0.62	7.69	1.05	7	11		1.5	7	
5	1.39	7.02	1.18	0.59	7.69	1.05	4	10		1.4	6	
6	1.11	7.12	1.19	0.63	7.70	1.04	-2	12		1.5	7	
7	1.09	7.13	1.18	0.60	7.70	1.04	2	13		1.4	6	
8	0.14	7.13	1.09	0.51	7.70	1.04	1	1	50	1.2	5	
9	1.44	7.17	1.13	0.62	7.70	1.08	1	17		1.4	7	
10	1.06	7.16	1.12	0.65	7.71	1.10	3	12		1.5	7	300
11	1.18	7.15	1.15	0.56	7.71	1.10	2	13		1.3	6	
12	1.16	7.15	1.18	0.61	7.71	1.10	2	8	50	1.4	7	
13	0.79	7.15	1.20	0.63	7.72	1.10	3	2		1.5	7	
14	0.96	7.14	1.20	0.59	7.72	1.09	4	10		1.4	6	
15	1.13	7.13	1.18	0.56	7.72	1.10	3	14		1.3	6	
16	1.30	7.14	1.20	0.66	7.71	1.09	3	16		1.5	7	50
17	0.99	7.14	1.22	0.57	7.71	1.10	2	12		1.3	6	
18	1.24	7.13	1.27	0.64	7.71	1.09	3	15		1.5	6	
19	1.18	7.13	1.28	0.63	7.71	1.09	3	13	50	1.4	6	
20	0.96	7.14	1.29	0.65	7.71	1.08	2	12		1.5	7	
21	1.01	7.14	1.28	0.64	7.71	1.06	3	13		1.5	6	
22	1.24	7.13	1.27	0.62	7.71	1.06	4	15		1.4	6	
23	1.03	7.12	1.28	0.67	7.71	1.06	3	12		1.5	7	
24	1.24	7.13	1.29	0.70	7.70	1.05	3	15		1.6	7	
25	1.23	7.14	1.22	0.63	7.70	1.04	4	15		1.4	6	
26	1.12	7.14	1.25	0.70	7.69	1.03	3	14	100	1.6	7	
27	1.11	7.13	1.26	0.56	7.69	1.03	2	13		1.3	6	
28	0.87	7.13	1.27	0.66	7.68	1.02	1	11		1.5	7	
29	1.15	7.13	1.29	0.60	7.68	1.02	5	13		1.4	6	
30	1.26	7.14	1.29	0.58	7.68	1.02	5	15		1.4	6	
31	0.95	7.17	1.33	0.62	7.67	1.01	2	12		1.4	6	
Summary	34.84	7.13	1.09	19.24	7.70	1.01	91	385	350	44	202	350
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

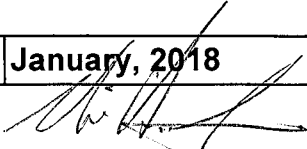
Chemicals Used (fluoride reported separately)				
	Chemical Name	Purpose	Chemical Strength	Total Units
Calc	Calciquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	135 gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	587 gallons
NaF	Sodium fluoride	fluoridation		700 pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
Number of routine samples taken:	28	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.95

Monthly Well Production Report		System Information	
System Type - All GW systems		Treatment plant/pump station: All wells	
System Name:	Greater Augusta Utility District	Community System	
PWSID#:	90080	List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME	Brian Tarbuck		
License #:	2026		
btarbuck@greataugustautilitydistrict.org			
Reporting period (month and year): January, 2018			
Signature: 		February 8, 2018	

Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.74	0.00	0.43	1.14	0.00	0.57	0.57	1.72
2	0.74	0.00	0.42	1.10	0.00	0.65	0.65	1.75
3	0.77	0.00	0.02	1.99	0.00	0.72	0.72	2.72
4	0.96	0.00	0.00	1.28	0.00	0.62	0.62	1.90
5	0.95	0.00	0.18	1.39	0.00	0.59	0.59	1.98
6	0.83	0.00	0.46	1.11	0.00	0.63	0.63	1.74
7	0.30	0.16	0.53	1.09	0.00	0.60	0.60	1.69
8	0.00	0.50	0.74	0.14	0.00	0.51	0.51	0.65
9	0.00	0.45	0.73	1.44	0.00	0.62	0.62	2.06
10	0.00	0.18	0.78	1.06	0.00	0.65	0.65	1.71
11	0.00	0.22	0.79	1.18	0.00	0.56	0.56	1.73
12	0.00	0.35	0.89	1.16	0.00	0.61	0.61	1.77
13	0.00	0.58	0.45	0.79	0.00	0.63	0.63	1.42
14	0.09	1.16	0.00	0.96	0.00	0.59	0.59	1.55
15	0.39	0.84	0.00	1.13	0.00	0.56	0.56	1.69
16	0.26	0.86	0.00	1.30	0.00	0.66	0.66	1.95
17	0.21	0.90	0.00	0.99	0.00	0.57	0.57	1.56
18	0.06	0.82	0.00	1.24	0.00	0.64	0.64	1.88
19	0.03	1.12	0.00	1.18	0.00	0.63	0.63	1.81
20	0.40	0.87	0.00	0.96	0.00	0.65	0.65	1.61
21	0.62	0.16	0.16	1.01	0.00	0.64	0.64	1.65
22	0.00	0.00	0.00	1.24	0.00	0.62	0.62	1.86
23	0.00	0.00	0.00	1.03	0.00	0.67	0.67	1.70
24	0.00	0.00	0.00	1.24	0.00	0.70	0.70	1.95
25	0.00	0.00	0.00	1.23	0.00	0.63	0.63	1.86
26	0.00	0.00	0.00	1.12	0.00	0.70	0.70	1.82
27	0.00	0.00	0.00	1.11	0.00	0.56	0.56	1.67
28	0.00	0.00	0.00	0.87	0.00	0.66	0.66	1.53
29	0.00	0.00	0.00	1.15	0.00	0.60	0.60	1.75
30	0.00	0.00	0.00	1.26	0.00	0.58	0.58	1.85
31	0.00	0.00	0.00	0.95	0.00	0.62	0.62	1.57
Sum	7.36	9.17	6.58	34.84	0.00	19.24	19.24	54.09

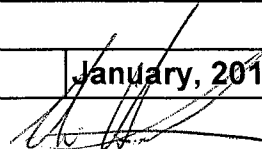
Percent Triangle 64%
Percent Riverside 36%

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Triangle Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080			
Reporting period:	January, 2018	Notes: See notes below for specific operating conditions.	
Signature:		Date	GAUD mg/L
		12/14/2017 10:30	Triangle Station
			HETL mg/L
			0.7

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	1.14		0.69	0.00
2	1.10		0.70	0.00
3	1.99		0.67	0.00
4	1.28		0.69	0.00
5	1.39		0.68	0.00
6	1.11		0.69	0.00
7	1.09		0.69	0.00
8	0.14		0.72	0.00
9	1.44		0.72	0.00
10	1.06		0.73	0.00
11	1.18		0.74	0.00
12	1.16		0.75	0.00
13	0.79		0.76	0.00
14	0.96		0.76	0.00
15	1.13		0.75	0.00
16	1.30		0.75	0.00
17	0.99		0.75	0.00
18	1.24		0.72	0.00
19	1.18		0.71	0.00
20	0.96		0.73	0.00
21	1.01		0.73	0.00
22	1.24		0.74	0.00
23	1.03		0.72	0.00
24	1.24		0.67	0.00
25	1.23		0.73	0.00
26	1.12		0.74	0.00
27	1.11		0.74	0.00
28	0.87		0.76	0.00
29	1.15		0.76	0.00
30	1.26		0.75	0.00
31	0.95		0.77	0.00
Avg	1.12	#DIV/0!	0.73	0.00
Min	0.14	0.00	0.67	0.00
Max	1.99	0.00	0.77	0.00
Total	34.84			

Operating comments

Water meter into upflow saturator failed. It was replaced in early February.

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: <u>Riverside Station</u>	
System Name:	Greater Augusta Utility District	Chemical Used: <u>Sodium Fluoride</u>	
PWSID#: 90080			
Reporting period:	<u>January, 2018</u>	Notes: See notes below for specific operating conditions.	
Signature:		Date	GAUD mg/L
	2/8/2018		Location
			HETL mg/L
			Riverside Station

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.57	0	0.12	0.00
2	0.65	0	0.11	0.00
3	0.72	0	0.11	0.00
4	0.62	0	0.11	0.00
5	0.59	0	0.11	0.00
6	0.63	0	0.11	0.00
7	0.60	0	0.11	0.00
8	0.51	0	0.11	0.00
9	0.62	0	0.11	0.00
10	0.65	14	0.42	0.39
11	0.56	24	0.83	0.78
12	0.61	25	0.75	0.74
13	0.63	25	0.73	0.71
14	0.59	24	0.73	0.73
15	0.56	22	0.73	0.71
16	0.66	24	0.72	0.66
17	0.57	23	0.71	0.72
18	0.64	25	0.71	0.70
19	0.63	25	0.71	0.71
20	0.65	26	0.70	0.72
21	0.64	26	0.70	0.73
22	0.62	25	0.71	0.73
23	0.67	26	0.70	0.70
24	0.70	27	0.72	0.69
25	0.63	26	0.73	0.74
26	0.70	27	0.73	0.70
27	0.56	24	0.73	0.78
28	0.66	27	0.73	0.74
29	0.60	26	0.73	0.78
30	0.58	24	0.73	0.74
31	0.62	27	0.74	0.78
Avg	0.62	17.48	0.54	0.51
Min	0.51	0.00	0.11	0.00
Max	0.72	27.00	0.83	0.78
Total	19.24	542.00		

Operating comments

Fluoridation system offline for maintenance.

Fluoridation system restored to service.

Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: January, 2018

Reporting date: 2/8/2018



Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
1/1/2018	54,800	1.64	0.3	
1/2/2018	60,000	1.57	0.4	
1/3/2018	65,600	1.56	0.4	
1/4/2018	62,200	1.60	0.3	
1/5/2018	62,000	1.52	0.3	
1/6/2018	59,500	1.90	0.4	
1/7/2018	56,000	1.53	0.3	
1/8/2018	63,700	1.54	0.4	
1/9/2018	63,700	1.51	0.4	
1/10/2018	114,800	1.54	0.7	
1/11/2018	59,400	1.64	0.4	
1/12/2018	59,100	1.57	0.4	
1/13/2018	0			no consumption
1/14/2018	53,000	1.70	0.3	
1/15/2018	55,400	1.71	0.3	
1/16/2018	61,200	1.61	0.4	
1/17/2018	59,500	1.68	0.3	
1/18/2018	59,400			
1/19/2018	59,900	1.60	0.3	
1/20/2018	0			no consumption
1/21/2018	54,600	1.65	0.3	
1/22/2018	64,200	1.65	0.4	
1/23/2018	113,000	1.61	0.7	
1/24/2018	55,000	1.67	0.3	
1/25/2018	58,900	1.60	0.3	
1/26/2018	59,000			
1/27/2018	0			no consumption
1/28/2018	54,500			
1/29/2018	63,000	1.64	0.4	
1/30/2018	59,500	1.68	0.4	
1/31/2018	57,900	1.61	0.3	
Sum	1,768,800		9.4	
Average	57,058	1.6	0.4	
Max		1.9		

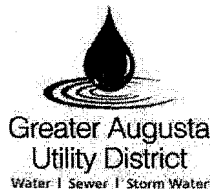
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February 9, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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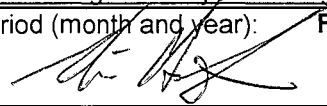
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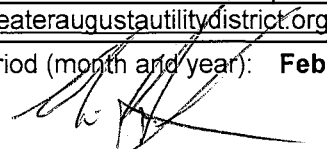
Brian Tarbuck, PE, System Class IV 2026

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System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026		
bstarbuck@greataugustautilitydistrict.org			
Reporting period (month and year): February - 18			
Signature: 		3/9/2018	

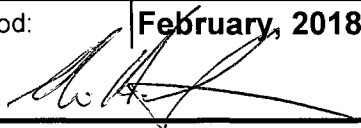
Water production, pH and free chlorine residual							Chemical usage					
Triangle Station			Riverside Station				Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons (MGD)	pH		Calc gal	Hypo gal	NaF lbs	Calc gal	Hypo gal	NaF lbs
1	1.14	7.17	1.33	0.58	7.68		2	13		1.3	6	
2	1.15	7.17	1.31	0.61	7.67		4	13		1.4	6	
3	0.95	7.16	1.32	0.53	7.67		4	22		1.2	5	
4	0.96	7.14	1.33	0.64	7.67		2	11		1.5	7	
5	1.04	7.15	1.33	0.67	7.66		2	10		1.5	7	
6	1.18	7.14	1.33	0.56	7.66		4	12		1.3	6	
7	1.01	7.14	1.30	0.89	7.66		4	13		2.0	9	
8	1.07	7.14	1.29	0.52	7.66		3	1		1.2	5	50
9	1.14	7.13	1.28	0.63	7.66		3	17	100	1.5	6	
10	0.90	7.13	1.25	0.61	7.66		2	12		1.4	6	
11	1.08	7.13	1.29	0.57	7.66		2	13		1.4	6	
12	1.15	7.13	1.30	0.65	7.67		3	8		1.5	7	
13	1.37	7.13	1.32	0.58	7.67		5	2		1.4	6	
14	1.31	7.12	1.31	0.63	7.67		3	10		1.4	7	
15	1.26	7.13	1.27	0.57	7.67		3	14		1.3	6	
16	1.04	7.13	1.34	0.60	7.67		3	16		1.4	6	
17	1.24	7.12	1.34	0.60	7.67		5	12		1.4	6	
18	1.00	7.13	1.31	0.47	7.67		2	15		1.1	5	
19	1.06	7.12	1.34	0.64	7.67		3	13		1.5	7	
20	1.34	7.13	1.36	0.56	7.67		2	12		1.3	6	
21	1.14	7.13	1.34	0.63	7.66		3	13	100	1.4	6	50
22	1.21	7.13	1.35	0.55	7.66		4	15		1.3	6	
23	1.17	7.13	1.42	0.63	7.66		4	12		1.4	6	
24	1.07	7.13	1.42	0.56	7.65		1	15		1.3	6	
25	0.94	7.13	1.46	0.57	7.65		4	15		1.3	6	
26	1.19	7.12	1.43	0.61	7.65		2	14	100	1.4	6	
27	1.42	7.13	1.38	0.64	7.65		4	13		1.5	7	
28	1.17	7.12	1.35	0.56	7.65		4	11		1.3	6	
Summary	31.69	7.13	1.25	16.87	7.66	0.96	86	345	300	39	173	100
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used (fluoride reported separately)				
	Chemical Name	Purpose	Chemical Strength	Total Units
Calc	Calciquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	124 gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	518 gallons
NaF	Sodium fluoride	fluoridation		400 pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
Number of routine samples taken:	28	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.89

Monthly Well Production Report		System Information	
System Type - All GW systems		Treatment plant/pump station: All wells	
System Name:	Greater Augusta Utility District	Community System	
PWSID#:	90080	List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME	Brian Tarbuck		
License #:	2026		
btarbuck@greteraugustautilitydistrict.org			
Reporting period (month and year): February, 2018			
Signature: 			

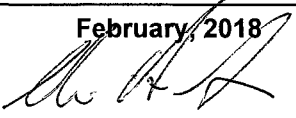
Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.96	0.00	0.18	1.14	0.00	0.58	0.58	1.73
2	0.75	0.00	0.40	1.15	0.00	0.61	0.61	1.76
3	0.75	0.00	0.21	0.95	0.00	0.53	0.53	1.48
4	0.96	0.00	0.00	0.96	0.00	0.64	0.64	1.60
5	0.88	0.00	0.16	1.04	0.00	0.67	0.67	1.71
6	0.96	0.00	0.23	1.18	0.00	0.56	0.56	1.74
7	0.83	0.00	0.18	1.01	0.00	0.89	0.89	1.90
8	0.83	0.00	0.24	1.07	0.00	0.52	0.52	1.59
9	0.96	0.00	0.18	1.14	0.00	0.63	0.63	1.77
10	0.74	0.00	0.16	0.90	0.00	0.61	0.61	1.51
11	0.95	0.00	0.13	1.08	0.00	0.57	0.57	1.66
12	0.95	0.00	0.20	1.15	0.00	0.65	0.65	1.80
13	0.93	0.00	0.43	1.37	0.00	0.58	0.58	1.95
14	0.94	0.00	0.37	1.31	0.00	0.63	0.63	1.94
15	0.78	0.01	0.47	1.26	0.00	0.57	0.57	1.84
16	0.82	0.00	0.22	1.04	0.00	0.60	0.60	1.64
17	0.93	0.00	0.30	1.24	0.00	0.60	0.60	1.84
18	0.70	0.00	0.29	1.00	0.00	0.47	0.47	1.47
19	0.96	0.00	0.10	1.06	0.00	0.64	0.64	1.70
20	0.93	0.04	0.36	1.34	0.00	0.56	0.56	1.89
21	0.82	0.07	0.24	1.14	0.00	0.63	0.63	1.77
22	0.24	0.41	0.57	1.21	0.00	0.55	0.55	1.76
23	0.00	0.43	0.74	1.17	0.00	0.63	0.63	1.80
24	0.09	0.30	0.68	1.07	0.00	0.56	0.56	1.63
25	0.00	0.00	0.94	0.94	0.00	0.57	0.57	1.52
26	0.00	0.29	0.90	1.19	0.00	0.61	0.61	1.80
27	0.16	0.39	0.87	1.42	0.00	0.64	0.64	2.06
28	0.24	0.32	0.61	1.17	0.00	0.56	0.56	1.74
Sum	19.05	2.27	10.37	31.69	0.00	16.87	16.87	48.57

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Triangle Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080			
Reporting period:	February, 2018	Notes: See notes below for specific operating conditions.	
Signature: 	3/9/2018	Date	GAUD mg/L
		Location	HETL mg/L
		Triangle Station	

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	1.14	0	0.79	0.00
2	1.15	0	0.80	0.00
3	0.95	0	0.81	0.00
4	0.96	0	0.81	0.00
5	1.04	0	0.78	0.00
6	1.18	0	0.74	0.00
7	1.01	55	0.73	0.98
8	1.07	56	0.70	0.94
9	1.14	30	0.62	0.48
10	0.90	29	0.58	0.59
11	1.08	29	0.59	0.49
12	1.15	33	0.62	0.52
13	1.37	40	0.65	0.53
14	1.31	42	0.64	0.58
15	1.26	39	0.65	0.56
16	1.04	37	0.63	0.65
17	1.24	36	0.64	0.53
18	1.00	37	0.64	0.68
19	1.06	30	0.62	0.52
20	1.34	38	0.62	0.52
21	1.14	39	0.63	0.62
22	1.21	35	0.72	0.53
23	1.17	36	0.69	0.56
24	1.07	35	0.63	0.60
25	0.94	31	0.63	0.60
26	1.19	34	0.68	0.52
27	1.42	45	0.72	0.58
28	1.17	46	0.70	0.71
Avg	1.13	29.99	0.68	0.47
Min	0.90	0.00	0.58	0.00
Max	1.42	55.99	0.81	0.98
Total	31.69	839.72		

Operating comments

No theoretical calculation during this period; waiting for new flow meter to arrive.

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Riverside Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080		Notes: See notes below for specific operating conditions.	
Reporting period: February, 2018		Date	GAUD mg/L
Signature:  3/9/2018		Location	HETL mg/L
		Riverside Station	

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.58	25	0.73	0.77
2	0.61	26	0.75	0.77
3	0.53	22	0.74	0.75
4	0.64	27	0.75	0.76
5	0.67	28	0.74	0.76
6	0.56	22	0.75	0.71
7	0.89	37	0.75	0.75
8	0.52	18	0.75	0.62
9	0.63	26	0.76	0.74
10	0.61	25	0.77	0.74
11	0.57	24	0.76	0.75
12	0.65	25	0.77	0.69
13	0.58	21	0.77	0.65
14	0.63	23	0.75	0.66
15	0.57	21	0.75	0.66
16	0.60	20	0.74	0.60
17	0.60	19	0.74	0.57
18	0.47	13	0.73	0.49
19	0.64	18	0.73	0.51
20	0.56	13	0.73	0.42
21	0.63	17	0.73	0.49
22	0.55	14	0.76	0.46
23	0.63	9	0.76	0.26
24	0.56	2	0.73	0.06
25	0.57	0	0.74	0.00
26	0.61	1	0.73	0.03
27	0.64	1	0.72	0.03
28	0.56	1	0.70	0.03
Avg	0.60	17.79	0.74	0.53
Min	0.47	0.00	0.70	0.00
Max	0.89	37.00	0.77	0.77
Total	16.87	498.00		

Operating comments

Gallons of flow not accumulating properly during this period which makes theoretical computation inaccurate. Looking into the cause of this.

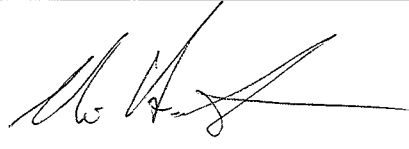
Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: February, 2018

Reporting date: 3/9/2018



Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
2/1/2018	56,500	1.61	0.3	
2/2/2018	55,100	1.61	0.3	
2/3/2018	0			no consumption
2/4/2018	54,000	1.56	0.3	
2/5/2018	57,800	1.63	0.4	
2/6/2018	57,900	1.66	0.4	
2/7/2018	59,300	1.54	0.5	
2/8/2018	55,600	1.47	0.3	
2/9/2018	56,800	1.53	0.4	
2/10/2018	0			no consumption
2/11/2018	55,000	1.51	0.4	
2/12/2018	57,600	1.19	0.3	
2/13/2018	59,500	1.61	0.4	
2/14/2018	62,000	1.63	0.4	
2/15/2018	65,100	1.60	0.4	
2/16/2018	66,200	1.58	0.4	
2/17/2018	53,600	1.54	0.3	
2/18/2018	0			no consumption
2/19/2018	52,600	1.57	0.3	
2/20/2018	61,300	1.59	0.4	
2/21/2018	62,200	1.59	0.4	
2/22/2018	61,400	1.53	0.4	
2/23/2018	57,200	1.55	0.4	
2/24/2018	54,100	1.58	0.3	
2/25/2018	0			no consumption
2/26/2018	76,700	1.58	0.5	
2/27/2018	61,400	1.58	0.4	
2/28/2018	60,900	1.58	0.4	
Sum	1,419,800		9.0	
Average	50,707	1.6	0.4	
Max		1.7		

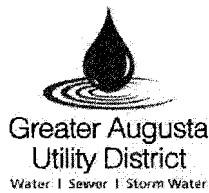
Brian Tarbuck, General Manager
btarbuck@greateraugustautilitydistrict.org

Ken Knight, Board Chair
kknight@greateraugustautilitydistrict.org

Dave Bustin, Hallowell voting member, Clerk
dbustin@greateraugustautilitydistrict.org

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kluke@greateraugustautilitydistrict.org

Charlotte Warren, Hallowell ex-officio member
cwarren@greateraugustautilitydistrict.org

April 10, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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 March, 2018.

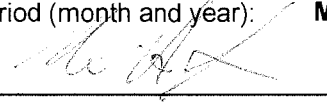
You should find the following documents:

1. Operating report;
2. Water production report;
3. Triangle fluoridation report
4. Riverside fluoridation report; and
5. Togus disinfection report.

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

Sincerely,

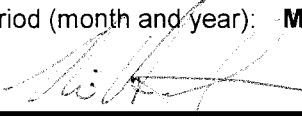
Brian Tarbuck, PE, System Class IV 2026

Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026 btarbuck@greteraugustautilitydistrict.org	pH analyzer at Triangle failed on 3/29; traced to a bad salt bridge; had to order a new one - replaced on 4/5	
Reporting period (month and year):	March - 18		
Signature:		4/10/2018	

Water production, pH and free chlorine residual							Chemical usage					
Triangle Station			Riverside Station				Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons (MGD)	pH		Calc	Hypo	NaF	Calc	Hypo	NaF
							gal	gal	lbs	gal	gal	lbs
1	1.11	7.12	1.35	0.62	7.65	0.95	3	13		1.4	6.3	50
2	1.83	7.13	1.34	0.59	7.65	0.95	6	21		1.3	6.0	
3	1.17	7.11	1.40	0.65	7.65	0.94	3	14		1.5	6.5	
4	1.14	7.11	1.40	0.52	7.64	0.93	2	13		1.2	5.3	
5	0.31	7.11	1.27	0.33	7.64	0.93	2	4		0.8	3.4	
6	1.53	7.13	1.29	0.70	7.64	0.94	2	18		1.5	7.0	
7	1.53	7.13	1.33	0.69	7.64	0.97	6	15		1.5	6.9	50
8	1.02	7.12	1.29	0.62	7.64	0.98	4	12		1.4	6.3	
9	0.18	7.13	1.22	0.57	7.64	0.94	1	2	100	1.3	5.9	
10	1.02	7.12	1.30	0.69	7.64	0.92	2	12		1.6	7.0	
11	1.00	7.12	1.32	0.58	7.64	0.91	3	11		1.3	5.9	
12	1.16	7.15	1.29	0.72	7.64	0.91	3	14	50	1.7	7.4	50
13	1.62	7.15	1.26	0.78	7.63	0.90	5	19	100	1.7	7.9	
14	1.10	7.14	1.24	0.66	7.63	1.03	3	12		1.5	6.9	
15	0.31	7.15	1.23	0.69	7.64	1.08	2	3		1.6	7.0	
16	1.14	7.17	1.25	0.77	7.64	1.15	4	14	50	1.7	7.9	
17	1.09	7.16	1.23	0.62	7.64	1.18	5	13		1.4	6.4	
18	0.84	7.15	1.23	0.67	7.64	1.19	3	10		1.5	6.9	
19	1.30	7.14	1.25	0.76	7.63	1.09	3	16		1.7	7.2	
20	1.13	7.14	1.24	0.73	7.63	1.01	2	13		1.7	6.6	
21	1.24	7.14	1.20	0.70	7.64	0.97	3	14		1.6	6.2	50
22	1.13	7.13	1.21	0.76	7.64	1.07	3	13		1.8	7.5	
23	1.13	7.12	1.23	0.74	7.64	1.01	3	14	50	1.8	6.9	
24	1.12	7.12	1.19	0.69	7.64	0.98	3	11		1.6	6.4	
25	0.77	7.12	1.17	0.69	7.64	0.97	4	9		1.6	6.3	
26	1.30	7.12	1.21	0.77	7.64	0.96	3	15	100	1.9	7.1	
27	1.30	7.11	1.23	0.83	7.64	0.96	4	14		2.0	7.7	
28	1.11	7.10	1.27	0.63	7.64	0.96	3	13		1.6	5.8	
29	1.33	6.46	1.28	0.76	7.64	0.96	4	15		1.9	6.9	
30	1.06	5.19	1.29	0.77	7.64	0.94	3	13		1.9	7.0	50
31	1.14	4.94	1.33	0.68	7.65	0.94	4	14		1.7	6.2	
Summary	34.15	6.97	1.17	20.98	7.64	0.90	99	394	450	49	205	250
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used (fluoride reported separately)				
	Chemical Name	Purpose	Chemical Strength	Total Units
Calc	Calciquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	148 gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	599 gallons
NaF	Sodium fluoride	fluoridation		700 pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
Number of routine samples taken:	28	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.89

Monthly Well Production Report		System Information	
System Type - All GW systems		Treatment plant/pump station: All wells	
System Name:	Greater Augusta Utility District	Community System	
PWSID#:	90080	List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME	Brian Tarbuck		
License #:	2026		
btarbuck@greataugustautilitydistrict.org			
Reporting period (month and year): March, 2018			
Signature:  April 10, 2018			

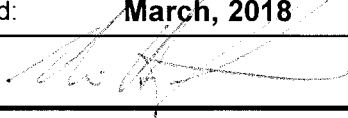
Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.00	0.46	0.65	1.11	0.00	0.62	0.62	1.73
2	0.45	0.69	0.69	1.83	0.00	0.59	0.59	2.42
3	0.00	0.28	0.88	1.17	0.00	0.65	0.65	1.82
4	0.00	0.26	0.88	1.14	0.00	0.52	0.52	1.66
5	0.00	0.11	0.20	0.31	0.00	0.33	0.33	0.64
6	0.34	0.92	0.27	1.53	0.00	0.70	0.70	2.23
7	0.38	1.10	0.05	1.53	0.00	0.69	0.69	2.22
8	0.20	0.82	0.00	1.02	0.00	0.62	0.62	1.64
9	0.00	0.18	0.00	0.18	0.00	0.57	0.57	0.75
10	0.00	1.02	0.00	1.02	0.00	0.69	0.69	1.70
11	0.00	1.00	0.00	1.00	0.00	0.58	0.58	1.58
12	0.40	0.76	0.00	1.16	0.00	0.72	0.72	1.88
13	0.61	0.73	0.28	1.62	0.00	0.78	0.78	2.40
14	0.51	0.59	0.00	1.10	0.00	0.66	0.66	1.76
15	0.21	0.11	0.00	0.31	0.00	0.69	0.69	1.00
16	0.96	0.00	0.18	1.14	0.00	0.77	0.77	1.91
17	0.83	0.00	0.26	1.09	0.00	0.62	0.62	1.71
18	0.75	0.00	0.09	0.84	0.00	0.67	0.67	1.50
19	0.94	0.00	0.36	1.30	0.00	0.76	0.76	2.06
20	0.77	0.14	0.22	1.13	0.00	0.73	0.73	1.86
21	0.66	0.23	0.35	1.24	0.00	0.70	0.70	1.94
22	0.66	0.00	0.47	1.13	0.00	0.76	0.76	1.89
23	0.70	0.00	0.43	1.13	0.00	0.74	0.74	1.87
24	0.72	0.00	0.39	1.12	0.00	0.69	0.69	1.81
25	0.77	0.00	0.00	0.77	0.00	0.69	0.69	1.46
26	0.94	0.00	0.36	1.30	0.00	0.77	0.77	2.07
27	0.21	0.49	0.60	1.30	0.00	0.83	0.83	2.13
28	0.00	0.34	0.76	1.11	0.00	0.63	0.63	1.74
29	0.17	0.48	0.69	1.33	0.00	0.76	0.76	2.09
30	0.00	0.41	0.65	1.06	0.00	0.77	0.77	1.83
31	0.00	0.22	0.92	1.14	0.00	0.68	0.68	1.82
Sum	12.17	11.35	10.63	34.15	0.00	20.98	20.98	55.13

Average 1.78

Monthly Fluoride Report		System Information			
System Type - Fluoride Systems		Treatment plant: Triangle Station			
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride			
PWSID#: 90080					
Reporting period:	March, 2018	Notes: See notes below for specific operating conditions.			
Signature:	4/10/2018	Date	GAUD mg/L	Location	HETL mg/L
		3/6/2018 9:30		Triangle Station	0.7

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	1.11	37	0.71	0.61
2	1.83	56	0.67	0.55
3	1.17	37	0.66	0.58
4	1.14	37	0.67	0.59
5	0.31	10	0.68	0.59
6	1.53	49	0.65	0.58
7	1.53	48	0.66	0.57
8	1.02	33	0.71	0.59
9	0.18	4	0.71	0.42
10	1.02	31	0.72	0.55
11	1.00	33	0.74	0.60
12	1.16	38	0.72	0.60
13	1.62	47	0.71	0.52
14	1.10	38	0.73	0.63
15	0.31	9	0.78	0.52
16	1.14	37	0.75	0.59
17	1.09	36	0.76	0.60
18	0.84	25	0.75	0.54
19	1.30	43	0.74	0.60
20	1.13	36	0.75	0.58
21	1.24	37	0.72	0.54
22	1.13	40	0.73	0.65
23	1.13	34	0.74	0.55
24	1.12	35	0.75	0.57
25	0.77	25	0.75	0.59
26	1.30	40	0.77	0.56
27	1.30	39	0.76	0.54
28	1.11	38	0.76	0.63
29	1.33	39	0.74	0.53
30	1.06	34	0.74	0.58
31	1.14	38	0.73	0.61
Avg	1.10	35.24	0.72	0.57
Min	0.18	4.04	0.65	0.42
Max	1.83	55.60	0.78	0.65
Total	34.15	1,092.37		

Operating comments

Monthly Fluoride Report		System Information			
System Type - Fluoride Systems		Treatment plant: Riverside Station			
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride			
PWSID#: 90080					
Reporting period: March, 2018		Notes: See notes below for specific operating conditions.			
Signature: 		Date	GAUD mg/L	Location	HETL mg/L
4/10/2018		3/6/2018 8:35		Riverside Station	0.7

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.62	1	0.72	0.03
2	0.59	1	0.73	0.03
3	0.65	1	0.73	0.03
4	0.52	1	0.74	0.03
5	0.33	0	0.73	0.00
6	0.70	1	0.72	0.03
7	0.69	1	0.73	0.03
8	0.62	1	0.75	0.03
9	0.57	1	0.76	0.03
10	0.69	0	0.75	0.00
11	0.58	1	0.74	0.03
12	0.72	3	0.74	0.07
13	0.78	1	0.72	0.02
14	0.66	1	0.73	0.03
15	0.69	1	0.72	0.03
16	0.77	1	0.72	0.02
17	0.62	1	0.73	0.03
18	0.67	1	0.74	0.03
19	0.76	1	0.70	0.02
20	0.73	1	0.72	0.02
21	0.70	1	0.75	0.03
22	0.76	1	0.76	0.02
23	0.74	1	0.73	0.02
24	0.69	1	0.71	0.03
25	0.69	1	0.72	0.03
26	0.77	1	0.71	0.02
27	0.83	2	0.70	0.04
28	0.63	0	0.68	0.00
29	0.76	1	0.68	0.02
30	0.77	1	0.68	0.02
31	0.68	1	0.69	0.03
Avg	0.68	1.00	0.73	0.03
Min	0.33	0.00	0.68	0.00
Max	0.83	3.00	0.76	0.07
Total	20.98	31.00		

Operating comments

Mechanical flow meter having issues this month; system was cleaned in early April. Flowmeter out of service so rely on continuous analyzer for compliance.

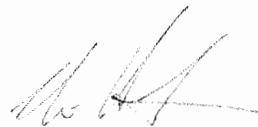
Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: March, 2018

Reporting date: 4/9/2018



Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
3/1/2018	61,000	1.62	0.4	
3/2/2018	58,800	1.59	0.4	
3/3/2018	53,000	1.59	0.3	
3/4/2018	1,400			
3/5/2018	61,600	1.51	0.4	
3/6/2018	60,800	1.58	0.4	
3/7/2018	59,600	1.55	0.4	
3/8/2018	59,200	1.58	0.4	
3/9/2018	60,600	1.58	0.4	
3/10/2018	53,300	1.52	0.3	
3/11/2018	0			no consumption
3/12/2018	63,300	1.59	0.4	
3/13/2018	59,900	1.61	0.4	
3/14/2018	60,900	1.58	0.4	
3/15/2018	61,700	1.58	0.4	
3/16/2018	60,100	1.48	0.4	
3/17/2018	57,100	1.47	0.4	
3/18/2018	58,400	1.48	0.4	
3/19/2018	61,900	1.60	0.4	
3/20/2018	63,100	1.68	0.4	
3/21/2018	59,800	1.65	0.4	
3/22/2018	62,600	1.69	0.4	
3/23/2018	59,200	1.58	0.4	
3/24/2018	51,800	1.53	0.3	
3/25/2018	0			no consumption
3/26/2018	65,000	1.54	0.4	
3/27/2018	60,500	1.53	0.4	
3/28/2018	60,800	1.55	0.4	
3/29/2018	60,200	1.60	0.3	
3/30/2018	61,700	1.57	0.4	
3/31/2018	53,800	1.47	0.3	
Sum	1,671,100		10.6	
Average	53,906	1.6	0.4	
Max		1.7		

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btarbuck@greateraugustautilitydistrict.org

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May 8, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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 April, 2018.

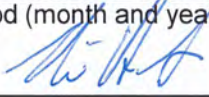
You should find the following documents:

1. Operating report;
2. Water production report;
3. Triangle fluoridation report
4. Riverside fluoridation report; and
5. Togus disinfection report.

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

Sincerely,

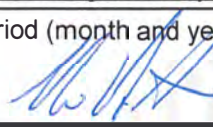

Brian Tarbuck, PE, System Class IV 2026

Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026	Triangle pH analyzer pooched on April 1 and required a new salt bridge. Returned to reliable service on 4/6.	
Reporting period (month and year): April - 18			
Signature: 		5/8/2018	

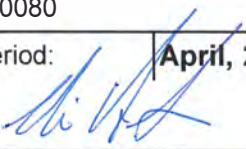
	Water production, pH and free chlorine residual						Chemical usage					
	Triangle Station			Riverside Station			Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons (MGD)	pH	Average free chlorine residual	Calc	Hypo	NaF	Calc	Hypo	NaF
							gal	gal	lbs	gal	gal	lbs
1	0.97		1.29	0.73	7.65	0.94	4	11		1.8	7	
2	1.37		1.02	0.74	7.65	0.94	4	13	50	1.9	7	
3	1.10		1.26	0.73	7.65	0.94	4	13		1.8	7	
4	1.15		1.27	0.73	7.66	0.93	4	25		1.8	7	
5	1.09		1.25	0.77	7.67	0.92	4	14		1.7	7	300
6	1.17	7.77	1.37	0.71	7.67	0.91	4	13		1.8	6	
7	0.97	7.82	1.39	0.70	7.68	0.90	3	11		1.8	6	
8	1.17	7.82	1.39	0.74	7.68	0.82	4	14		1.9	6	
9	1.03	7.47	1.32	0.71	7.68	0.83	4	12	50	1.8	6	
10	1.26	7.31	1.31	0.71	7.68	0.89	3	12	50	1.8	7	
11	1.14	7.37	1.29	0.89	7.69	0.97	3	14		2.2	9	
12	1.10	7.37	1.30	0.61	7.68	0.98	3	12		1.5	6	
13	1.13	7.36	1.30	0.89	7.68	1.00	3	13	100	2.2	9	50
14	0.90	7.35	1.29	0.57	7.68	1.00	4	11		1.4	6	
15	0.92	7.34	1.29	0.70	7.67	1.00	4	11		1.8	7	
16	0.95	7.32	1.29	0.89	7.67	1.00	3	11		2.2	9	
17	1.11	7.31	1.33	0.57	7.67	1.00	2	13		1.4	6	
18	1.33	7.30	1.32	0.89	7.67	1.00	4	17	100	2.2	9	
19	1.20	7.30	1.29	0.54	7.67	0.99	4	14		1.3	5	
20	1.15	7.28	1.28	0.85	7.68	1.00	4	12		2.1	9	50
21	1.10	7.29	1.25	0.52	7.68	0.94	4	13		1.3	5	
22	0.96	7.28	1.23	0.89	7.68	0.92	3	12		2.2	8	
23	1.41	7.27	1.26	0.62	7.68	0.92	4	17		1.5	6	
24	1.21	7.29	1.19	0.64	7.68	0.93	4	14		1.6	6	
25	1.02	7.31	1.19	0.61	7.68	0.91	3	9		1.5	6	
26	1.26	7.32	1.16	0.58	7.68	0.94	3	14		1.4	5	50
27	1.16	7.32	1.19	0.64	7.68	1.04	4	14	50	1.6	6	
28	0.96	7.31	1.19	0.56	7.67	0.94	3	11		1.4	5	
29	1.17	7.31	1.12	0.58	7.67	0.96	4	12		1.4	6	
30	1.02	7.33	1.15	0.64	7.67	0.97	4	12		1.6	6	50
Summary	33.45	7.38	1.02	20.96	7.67	0.82	108	393	400	52	196	500
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used (fluoride reported separately)				
	Chemical Name	Purpose	Chemical Strength	Total Units
Calc	Calciquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	159 gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	589 gallons
NaF	Sodium fluoride	fluoridation		900 pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
Number of routine samples taken:	28	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.89

Monthly Well Production Report		System Information	
System Type - All GW systems		Treatment plant/pump station: All wells	
System Name: Greater Augusta Utility District		Community System	
PWSID#: 90080		List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME: Brian Tarbuck			
License #: 2026			
btarbuck@greteraugustautilitydistrict.org			
Reporting period (month and year): April, 2018			
Signature: 		May 8, 2018	

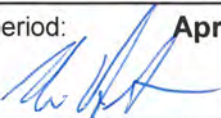
Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.00	0.29	0.68	0.97	0.00	0.73	0.73	1.70
2	0.45	0.66	0.26	1.37	0.00	0.74	0.74	2.11
3	0.35	0.75	0.00	1.10	0.00	0.73	0.73	1.83
4	0.29	0.86	0.00	1.15	0.00	0.73	0.73	1.88
5	0.22	0.87	0.00	1.09	0.00	0.77	0.77	1.86
6	0.20	0.97	0.00	1.17	0.00	0.71	0.71	1.88
7	0.11	0.86	0.00	0.97	0.00	0.70	0.70	1.68
8	0.00	1.17	0.00	1.17	0.00	0.74	0.74	1.91
9	0.53	0.50	0.00	1.03	0.00	0.71	0.71	1.74
10	0.95	0.00	0.32	1.26	0.00	0.71	0.71	1.98
11	0.72	0.00	0.41	1.14	0.00	0.89	0.89	2.03
12	0.78	0.00	0.32	1.10	0.00	0.61	0.61	1.71
13	0.70	0.00	0.43	1.13	0.00	0.89	0.89	2.02
14	0.73	0.00	0.17	0.90	0.00	0.57	0.57	1.46
15	0.83	0.00	0.09	0.92	0.00	0.70	0.70	1.61
16	0.78	0.00	0.17	0.95	0.00	0.89	0.89	1.84
17	0.46	0.02	0.63	1.11	0.00	0.57	0.57	1.68
18	0.00	0.56	0.77	1.33	0.00	0.89	0.89	2.22
19	0.00	0.41	0.79	1.20	0.00	0.54	0.54	1.73
20	0.00	0.39	0.77	1.15	0.00	0.85	0.85	2.01
21	0.00	0.40	0.70	1.10	0.00	0.52	0.52	1.62
22	0.00	0.02	0.93	0.96	0.00	0.89	0.89	1.85
23	0.00	0.51	0.89	1.41	0.00	0.62	0.62	2.03
24	0.32	0.74	0.16	1.21	0.00	0.64	0.64	1.85
25	0.15	0.87	0.00	1.02	0.00	0.61	0.61	1.64
26	0.42	0.84	0.00	1.26	0.00	0.58	0.58	1.84
27	0.30	0.86	0.00	1.16	0.00	0.64	0.64	1.80
28	0.04	0.92	0.00	0.96	0.00	0.56	0.56	1.51
29	0.00	1.17	0.00	1.17	0.00	0.58	0.58	1.75
30	0.52	0.48	0.01	1.02	0.00	0.64	0.64	1.66
Sum	9.83	15.14	8.48	33.45	0.00	20.96	20.96	54.41

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Triangle Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080			
Reporting period:	April, 2018	Notes: See notes below for specific operating conditions.	
Signature: 	5/8/2018	Date	GAUD mg/L
		Location	HETL mg/L
		Triangle Station	

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.97	28	0.75	0.53
2	1.37	42	0.76	0.56
3	1.10	36	0.80	0.59
4	1.15	37	0.79	0.58
5	1.09	36	0.78	0.60
6	1.17	38	0.79	0.59
7	0.97	30	0.77	0.56
8	1.17	35	0.77	0.55
9	1.03	34	0.75	0.60
10	1.26	43	0.78	0.62
11	1.14	36	0.79	0.58
12	1.10	36	0.78	0.60
13	1.13	33	0.77	0.53
14	0.90	28	0.82	0.57
15	0.92	32	0.84	0.63
16	0.95	30	0.83	0.58
17	1.11	36	0.82	0.59
18	1.33	15	0.51	0.21
19	1.20	28	0.53	0.43
20	1.15	39	0.73	0.62
21	1.10	33	0.69	0.55
22	0.96	31	0.66	0.59
23	1.41	45	0.64	0.58
24	1.21	40	0.69	0.59
25	1.02	36	0.75	0.64
26	1.26	39	0.74	0.56
27	1.16	36	0.74	0.57
28	0.96	32	0.77	0.61
29	1.17	39	0.76	0.61
30	1.02	36	0.73	0.64
Avg	1.12	34.97	0.74	0.57
Min	0.90	15.17	0.51	0.21
Max	1.41	45.42	0.84	0.64
Total	33.45	1,049.23		

Operating comments

Fluoride feed lines were plugged. Were unplugged on 4/19.

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Riverside Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080			
Reporting period: April, 2018		Notes: See notes below for specific operating conditions.	
Signature: 		Date	GAUD mg/L
5/8/2018			
		Location	HETL mg/L
		Riverside Station	

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.73	0	0.68	0.00
2	0.74	1	0.68	0.02
3	0.73	1	0.67	0.02
4	0.73	0	0.67	0.00
5	0.77	13	0.42	0.30
6	0.71	29	0.72	0.73
7	0.70	28	0.72	0.72
8	0.74	29	0.73	0.70
9	0.71	28	0.73	0.71
10	0.71	28	0.73	0.71
11	0.89	35	0.73	0.71
12	0.61	25	0.72	0.74
13	0.89	32	0.72	0.65
14	0.57	22	0.73	0.70
15	0.70	27	0.74	0.70
16	0.89	36	0.73	0.73
17	0.57	22	0.73	0.70
18	0.89	35	0.73	0.71
19	0.54	21	0.73	0.70
20	0.85	32	0.73	0.68
21	0.52	19	0.73	0.66
22	0.89	35	0.73	0.71
23	0.62	24	0.72	0.70
24	0.64	25	0.71	0.70
25	0.61	24	0.72	0.71
26	0.58	20	0.72	0.62
27	0.64	25	0.73	0.71
28	0.56	22	0.73	0.71
29	0.58	22	0.73	0.68
30	0.64	22	0.74	0.61
Avg	0.70	22.73	0.71	0.59
Min	0.52	0.00	0.42	0.00
Max	0.89	36.00	0.74	0.74
Total	20.96	682.00		

Operating comments

Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: April, 2018

Reporting date: 5/8/2018

Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
4/1/2018	0			no consumption
4/2/2018	72,300	1.51	0.5	
4/3/2018	89,000	1.51	0.6	
4/4/2018	58,000	1.65	0.4	
4/5/2018	61,700	1.68	0.4	
4/6/2018	61,000	1.71	0.4	
4/7/2018	0			no consumption
4/8/2018	52,700	1.62	0.4	
4/9/2018	61,300	1.63	0.4	
4/10/2018	60,900	1.59	0.4	
4/11/2018	63,400	1.62	0.4	
4/12/2018	60,300	1.45	0.4	
4/13/2018	59,500	1.55	0.4	
4/14/2018	54,600	1.55	0.4	
4/15/2018	47,700	1.53	0.3	
4/16/2018	59,100	1.54	0.4	
4/17/2018	56,800	1.53	0.4	
4/18/2018	58,600	1.55	0.4	
4/19/2018	59,400	1.53	0.4	
4/20/2018	57,500	1.50	0.4	
4/21/2018	55,900	1.50	0.3	
4/22/2018	57,400	1.58	0.4	
4/23/2018	63,000	1.54	0.4	
4/24/2018	112,000	1.58	0.8	
4/25/2018	63,400	1.54	0.5	
4/26/2018	65,800	1.51	0.5	
4/27/2018	87,200	1.71	0.6	
4/28/2018	36,900	1.52	0.2	
4/29/2018	51,100	1.60	0.4	
4/30/2018	117,200	1.58	0.9	
Sum	1,803,700		12.5	
Average	58,184	1.6	0.4	
Max		1.7		

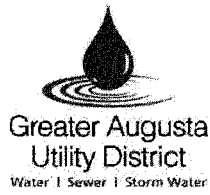
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Dave Bustin, Hallowell voting member, Clerk
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Bob Corey, Treasurer
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June 5, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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 May, 2018.

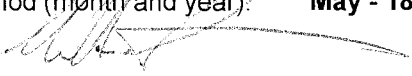
You should find the following documents:

1. Operating report;
2. Water production report;
3. Triangle fluoridation report
4. Riverside fluoridation report; and
5. Togus disinfection report.

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

Sincerely,

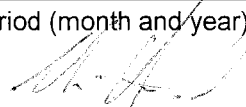
Brian Tarbuck, PE, System Class IV 2026

Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026		
btarbuck@greataugustacitydistrict.org			
Reporting period (month and year): May - 18			
Signature: 		6/5/2018	

	Water production, pH and free chlorine residual						Chemical usage					
	Triangle Station			Riverside Station			Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons (MGD)	pH	Average free chlorine residual	Calc	Hypo	NaF	Calc	Hypo	NaF
							gal	gal	lbs	gal	gal	lbs
1	1.28	7.34	1.13	0.42	7.67	0.96	4	14	50	1.1	4.4	
2	1.22	7.32	1.16	0.69	7.67	1.05	5	15		1.7	7.2	
3	1.08	7.32	1.12	0.65	7.67	1.00	4	12		1.6	6.7	
4	1.35	7.31	1.08	0.65	7.67	1.06	4	16		1.6	6.8	
5	1.16	7.31	1.17	0.62	7.67	0.99	5	13		1.5	6.4	
6	0.97	7.30	1.16	0.57	7.67	1.01	3	11		1.4	5.9	
7	0.91	7.30	1.20	0.63	7.67	1.04	5	11	50	1.6	6.7	50
8	1.83	7.29	1.20	0.64	7.66	0.99	6	22		1.6	6.7	
9	1.17	7.26	1.23	0.62	7.66	1.03	5	15		1.5	6.5	
10	1.20	7.25	1.25	0.69	7.66	1.02	4	13		1.7	7.3	
11	1.28	7.24	1.30	0.59	7.66	1.11	6	15	50	1.4	6.3	
12	1.18	7.24	1.23	0.61	7.66	1.19	5	14		1.6	6.4	
13	1.11	7.24	1.21	0.59	7.66	1.20	5	12		1.4	6.3	
14	1.08	7.28	1.17	0.62	7.65	1.19	3	13		1.6	6.6	
15	1.23	7.30	1.17	0.64	7.65	1.19	4	15		1.6	6.7	
16	1.15	7.29	1.16	0.60	7.64	1.16	6	14		1.5	6.3	
17	1.32	7.28	1.24	0.64	7.63	1.13	4	16		1.5	6.6	50
18	1.21	7.28	1.32	0.67	7.62	1.15	6	13	50	1.7	7.0	
19	1.13	7.28	1.31	0.60	7.62	1.12	5	13		1.5	6.2	
20	1.15	7.26	1.29	0.60	7.61	1.13	4	13		1.5	6.4	
21	1.18	7.27	1.28	0.66	7.60	1.13	6	14		1.6	6.8	
22	1.16	7.27	1.27	0.61	7.60	1.14	5	13		1.5	6.4	
23	1.17	7.28	1.25	0.66	7.59	1.10	6	13		1.6	6.8	
24	1.02	7.27	1.25	0.67	7.59	1.11	4	12	50	1.6	6.9	50
25	1.18	7.26	1.24	0.82	7.59	1.11	7	4		2.0	8.4	
26	0.95	7.27	1.23	0.61	7.59	1.08	3	9		1.5	6.4	
27	0.98	7.27	1.25	0.63	7.59	1.09	6	11		1.6	6.6	
28	0.99	7.25	1.26	0.68	7.59	1.11	4	11		1.7	7.1	
29	1.33	7.24	1.29	0.65	7.59	1.12	8	15		1.6	6.8	
30	1.15	7.22	1.29	0.69	7.59	1.07	6	14	100	1.7	7.2	
31	1.26	7.22	1.22	0.88	7.59	1.10	7	15		2.1	9.1	
Summary	36.41	7.27	1.08	19.92	7.63	0.96	156	408	350	49	208	150
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used					
	Chemical Name	Purpose	Chemical Strength	Total	Units
Calc	Calciquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	205	gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	616	gallons
NaF	Sodium fluoride	fluoridation		500	pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
Number of routine samples taken:	27	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.88

Monthly Well Production Report		System Information	
System Type - All GW systems		Treatment plant/pump station: All wells	
System Name:	Greater Augusta Utility District	Community System	
PWSID#:	90080	List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME	Brian Tarbuck		
License #:	2026		
btarbuck@greateraugustautilitydistrict.org			
Reporting period (month and year): May, 2018			
Signature: 		June 5, 2018	

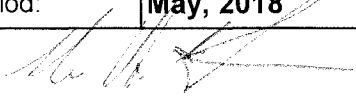
Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.81	0.00	0.47	1.28	0.00	0.42	0.42	1.70
2	0.73	0.00	0.49	1.22	0.00	0.69	0.69	1.91
3	0.77	0.00	0.31	1.08	0.00	0.65	0.65	1.74
4	0.69	0.21	0.44	1.35	0.00	0.65	0.65	2.00
5	0.96	0.00	0.21	1.16	0.00	0.62	0.62	1.78
6	0.97	0.00	0.00	0.97	0.00	0.57	0.57	1.54
7	0.58	0.18	0.15	0.91	0.00	0.63	0.63	1.55
8	0.52	0.77	0.54	1.83	0.00	0.64	0.64	2.47
9	0.00	0.53	0.64	1.17	0.00	0.62	0.62	1.79
10	0.00	0.47	0.73	1.20	0.00	0.69	0.69	1.90
11	0.00	0.35	0.92	1.28	0.00	0.59	0.59	1.87
12	0.00	0.41	0.76	1.18	0.00	0.61	0.61	1.78
13	0.00	0.47	0.64	1.11	0.00	0.59	0.59	1.70
14	0.47	0.52	0.10	1.08	0.00	0.62	0.62	1.70
15	0.60	0.63	0.00	1.23	0.00	0.64	0.64	1.87
16	0.46	0.70	0.00	1.15	0.00	0.60	0.60	1.76
17	0.39	0.93	0.00	1.32	0.00	0.64	0.64	1.96
18	0.38	0.83	0.00	1.21	0.00	0.67	0.67	1.88
19	0.30	0.83	0.00	1.13	0.00	0.60	0.60	1.73
20	0.33	0.82	0.00	1.15	0.00	0.60	0.60	1.75
21	0.57	0.15	0.46	1.18	0.00	0.66	0.66	1.84
22	0.93	0.00	0.23	1.16	0.00	0.61	0.61	1.77
23	0.61	0.19	0.37	1.17	0.00	0.66	0.66	1.83
24	0.61	0.00	0.41	1.02	0.00	0.67	0.67	1.69
25	0.72	0.00	0.46	1.18	0.00	0.82	0.82	1.99
26	0.61	0.00	0.34	0.95	0.00	0.61	0.61	1.57
27	0.65	0.00	0.33	0.98	0.00	0.63	0.63	1.62
28	0.61	0.00	0.38	0.99	0.00	0.68	0.68	1.67
29	0.09	0.62	0.63	1.33	0.00	0.65	0.65	1.99
30	0.00	0.51	0.64	1.15	0.00	0.69	0.69	1.84
31	0.00	0.51	0.75	1.26	0.00	0.88	0.88	2.15
Sum	14.36	10.65	11.40	36.41	0.00	19.92	19.92	56.33

65% Triangle
35% Riverside

MGD
1.17

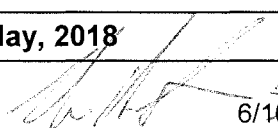
MGD
0.64

MGD
1.82

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Triangle Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080			
Reporting period:	May, 2018	Notes: See notes below for specific operating conditions.	
Signature: 	6/10/2018	Date	GAUD mg/L
		Location	HETL mg/L
		Triangle Station	

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	1.28	40	0.68	0.57
2	1.22	39	0.66	0.58
3	1.08	37	0.71	0.62
4	1.35	42	0.67	0.57
5	1.16	37	0.66	0.58
6	0.97	32	0.64	0.60
7	0.91	24	0.69	0.48
8	1.83	59	0.72	0.58
9	1.17	37	0.71	0.57
10	1.20	38	0.69	0.57
11	1.28	39	0.66	0.56
12	1.18	38	0.70	0.59
13	1.11	35	0.69	0.57
14	1.08	37	0.67	0.62
15	1.23	37	0.65	0.55
16	1.15	39	0.68	0.61
17	1.32	45	0.68	0.62
18	1.21	38	0.69	0.57
19	1.13	37	0.76	0.60
20	1.15	38	0.73	0.60
21	1.18	39	0.68	0.60
22	1.16	39	0.59	0.61
23	1.17	38	0.55	0.59
24	1.02	33	0.62	0.59
25	1.18	41	0.70	0.63
26	0.95	34	0.68	0.65
27	0.98	35	0.73	0.65
28	0.99	34	0.68	0.62
29	1.33	47	0.59	0.63
30	1.15	36	0.65	0.57
31	1.26	45	0.79	0.65
Avg	1.17	38.68	0.68	0.59
Min	0.91	24.21	0.55	0.48
Max	1.83	58.59	0.79	0.65
Total	36.41	1,199.15		

Operating comments

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Riverside Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080			
Reporting period: May, 2018		Notes: See notes below for specific operating conditions.	
Signature:	 6/10/2018	Date	GAUD mg/L
		Location	HETL mg/L
		Riverside Station	

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.42	16.00	0.75	0.68
2	0.69	28.00	0.72	0.73
3	0.65	25.00	0.70	0.69
4	0.65	25.00	0.70	0.69
5	0.62	25.00	0.70	0.73
6	0.57	22.00	0.71	0.69
7	0.63	25.00	0.70	0.71
8	0.64	23.00	0.79	0.65
9	0.62	23.00	0.85	0.67
10	0.69	27.00	0.85	0.70
11	0.59	23.00	0.87	0.70
12	0.61	23.00	0.88	0.68
13	0.59	23.00	0.87	0.70
14	0.62	24.00	0.80	0.70
15	0.64	25.00	0.73	0.70
16	0.60	22.00	0.81	0.66
17	0.64	21.00	0.76	0.59
18	0.67	25.00	0.69	0.67
19	0.60	22.00	0.72	0.66
20	0.60	22.00	0.70	0.66
21	0.66	23.00	0.69	0.63
22	0.61	23.00	0.68	0.68
23	0.66	24.00	0.67	0.66
24	0.67	22.00	0.67	0.59
25	0.82	30.00	0.68	0.66
26	0.61	23.00	0.67	0.67
27	0.63	23.00	0.70	0.65
28	0.68	25.00	0.71	0.66
29	0.65	25.00	0.69	0.69
30	0.69	25.00	0.69	0.65
31	0.88	33.00	0.67	0.67
Avg	0.64	24.03	0.74	0.67
Min	0.42	16.00	0.67	0.59
Max	0.88	33.00	0.88	0.73
Total	19.92	745.00		

Operating comments

Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: May, 2018

Reporting date: 6/5/2018

Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
1	82,352	1.43	0.5	
2	84,625	1.40	0.6	
3	150,406	1.39	0.9	
4	85,563	1.34	0.5	
5	77,406	1.39	0.5	
6	77,000	1.42	0.5	
7	185,828	1.43	1.2	
8	81,820	1.42	0.5	
9	81,148	1.44	0.4	
10	148,266	1.40	1.0	
11	80,211	1.45	0.5	
12	72,461	1.47	0.4	
13	63,234	1.47	0.4	
14	98,531	1.43	0.6	
15	82,617	1.46	0.5	
16	82,492	1.49	0.5	
17	79,945	1.48	0.5	
18	156,680	1.48	1.0	
19	4,414	1.53	-	
20	68,719	1.48	0.4	
21	90,109	1.41	0.6	
22	152,539	1.33	0.9	
23	128,875	1.33	0.8	
24	75,398	1.29	0.4	
25	82,625	1.31	0.5	
26	73,125	1.27	0.4	
27	74,336	1.31	0.4	
28	75,133	1.25	0.3	
29	90,375	1.18	0.4	
30	139,570	1.19	0.6	
31	90,508	1.23	0.4	
Sum	2,916,313		17.1	
Average	94,075	1.4	0.6	
Max		1.5		

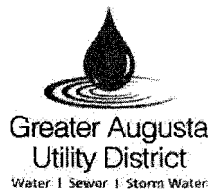
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Ken Knight, Board Chair
kknight@greateraugustautilitydistrict.org

Dave Bustin, Hallowell voting member, Clerk
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Bob Corey, Treasurer
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Kirsten Hebert
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July 10, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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 June, 2018.

You should find the following documents:

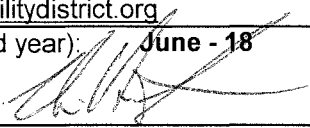
1. Operating report;
2. Water production report;
3. Triangle fluoridation report
4. Riverside fluoridation report; and
5. Togus disinfection report.

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

Sincerely,

A handwritten signature in black ink, appearing to be "Brian Tarbuck". The signature is fluid and cursive, written over a light blue horizontal line.

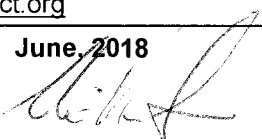
Brian Tarbuck, PE, System Class IV 2026

Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026 btarbuck@greataugustautilitydistrict.org		
Reporting period (month and year):	June - 18		
Date:	July 10, 2018		
Signature:			

Water production, pH and free chlorine residual							Chemical usage					
Triangle Station			Riverside Station				Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons (MGD)	pH		Calc	Hypo	NaF	Calc	Hypo	NaF
							gal	gal	lbs	gal	gal	lbs
1	1.29	7.22	1.23	0.56	7.59	1.06	7	25		1.4	6	
2	1.26	7.23	1.23	0.85	7.59	1.06	5	10		2.0	9	
3	1.17	7.24	1.21	0.54	7.58	1.05	6	9		1.4	6	
4	1.09	7.26	1.26	0.67	7.59	1.14	6	13		1.6	7	50
5	1.07	7.25	1.30	0.67	7.59	1.12	3	13		1.6	7	
6	1.18	7.23	1.34	0.65	7.58	1.08	4	12		1.6	7	
7	1.14	7.16	1.33	0.66	7.58	1.06	3	13	50	1.6	7	
8	1.22	7.12	1.34	0.63	7.58	1.05	6	14		1.6	7	
9	1.15	7.11	1.33	0.67	7.59	1.08	6	12		1.6	7	
10	1.22	7.09	1.35	0.63	7.58	1.03	5	15		1.6	7	
11	1.31	7.09	1.34	0.74	7.60	1.14	5	15		1.8	8	
12	1.29	7.09	1.23	0.88	7.60	1.16	9	13	100	2.1	9	50
13	1.30	7.13	1.15	0.62	7.58	1.01	8	15		1.5	6	
14	1.29	7.18	1.17	0.72	7.60	1.10	2	13		1.5	8	
15	1.31	7.19	1.18	0.70	7.60	1.05	7	15	50	1.7	7	
16	1.27	7.20	1.17	0.68	7.59	1.01	8	21		1.7	7	
17	1.26	7.22	1.18	0.88	7.59	1.00	7	14		2.1	9	
18	1.17	7.22	1.16	0.68	7.59	0.98	6	13		1.6	7	
19	1.28	7.24	1.16	0.65	7.59	0.97	4	16		1.6	7	
20	1.42	7.24	1.13	0.59	7.59	0.97	7	15		1.4	6	
21	1.36	7.24	1.14	0.88	7.59	0.98	6	15		2.1	9	
22	1.38	7.23	1.18	0.67	7.59	0.95	7	15		1.7	7	50
23	1.03	7.23	1.17	0.70	7.59	0.95	3	11		1.7	7	
24	1.06	7.22	1.17	0.61	7.59	0.94	6	13		1.5	6	
25	1.13	7.22	1.15	0.54	7.60	0.95	4	12		1.3	6	
26	1.30	7.22	1.20	0.69	7.60	0.94	8	15		1.7	7	
27	1.28	7.21	1.22	0.66	7.60	0.92	8	15		1.6	7	
28	1.25	7.19	1.21	0.68	7.61	0.98	3	13		1.6	7	
29	1.25	7.21	1.15	0.63	7.60	0.93	6	12		1.6	7	
30	1.13	7.21	1.15	0.63	7.59	0.89	6	14		1.5	6	
Summary	36.83	7.20	1.13	20.36	7.59	0.89	172	422	200	49	212	150
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used (fluoride reported separately)				
Chemical Name	Purpose	Chemical Strength	Total	Units
Calc Calciquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	221	gallons
Hypo Sodium hypochlorite	primary and secondary disinfection	12.50%	633	gallons
NaF Sodium fluoride	fluoridation		350	pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
# of routine samples taken:	28	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.8

Monthly Well Production Report			System Information	
System Type - All GW systems			Treatment plant/pump station: All wells	
System Name:	Greater Augusta Utility District		Community System	
PWSID#:	90080		List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME License #:	Brian Tarbuck 2026			
btarbuck@greataugustautilitydistrict.org				
Reporting period (month and year): June, 2018				
Date: July 10, 2018				
Signature: 				

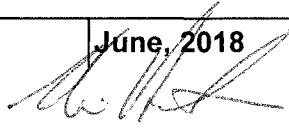
Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.00	0.61	0.68	1.29	0.00	0.56	0.56	1.85
2	0.00	0.45	0.81	1.26	0.00	0.85	0.85	2.11
3	0.00	0.52	0.65	1.17	0.00	0.54	0.54	1.72
4	0.32	0.63	0.15	1.09	0.00	0.67	0.67	1.75
5	0.25	0.82	0.00	1.07	0.00	0.67	0.67	1.74
6	0.34	0.85	0.00	1.18	0.00	0.65	0.65	1.83
7	0.35	0.79	0.00	1.14	0.00	0.66	0.66	1.80
8	0.38	0.83	0.00	1.22	0.00	0.63	0.63	1.85
9	0.37	0.78	0.00	1.15	0.00	0.67	0.67	1.82
10	0.26	0.96	0.00	1.22	0.00	0.63	0.63	1.86
11	0.52	0.51	0.27	1.31	0.00	0.74	0.74	2.05
12	0.72	0.00	0.57	1.29	0.00	0.88	0.88	2.17
13	0.75	0.00	0.55	1.30	0.00	0.62	0.62	1.91
14	0.78	0.00	0.51	1.29	0.00	0.72	0.72	2.01
15	0.82	0.18	0.32	1.31	0.00	0.70	0.70	2.01
16	0.70	0.22	0.35	1.27	0.00	0.68	0.68	1.95
17	0.78	0.17	0.31	1.26	0.00	0.88	0.88	2.14
18	0.68	0.00	0.48	1.17	0.00	0.68	0.68	1.84
19	0.94	0.00	0.34	1.28	0.00	0.65	0.65	1.93
20	0.73	0.26	0.44	1.42	0.00	0.59	0.59	2.01
21	0.67	0.30	0.39	1.36	0.00	0.88	0.88	2.25
22	0.93	0.16	0.29	1.38	0.00	0.67	0.67	2.04
23	0.68	0.00	0.35	1.03	0.00	0.70	0.70	1.73
24	0.79	0.00	0.27	1.06	0.00	0.61	0.61	1.66
25	0.68	0.00	0.45	1.13	0.00	0.54	0.54	1.67
26	0.46	0.35	0.48	1.30	0.00	0.69	0.69	1.99
27	0.08	0.61	0.59	1.28	0.00	0.66	0.66	1.94
28	0.09	0.45	0.71	1.25	0.00	0.68	0.68	1.93
29	0.00	0.61	0.63	1.25	0.00	0.63	0.63	1.88
30	0.00	0.51	0.62	1.13	0.00	0.63	0.63	1.75
Sum	14.06	11.55	11.22	36.83	0.00	20.36	20.36	57.19

64% Triangle
36% Riverside

MGD
1.23

MGD
0.68

MGD
1.91

Monthly Fluoride Report		System Information			
System Type - Fluoride Systems		Treatment plant: Triangle Station			
System Name: Greater Augusta Utility District		Chemical Used: Sodium Fluoride			
PWSID#: 90080		Notes: See notes below for specific operating conditions.			
Reporting period: June, 2018					
Signature:  7/10/2018		Date	GAUD mg/L	Location	HETL mg/L
		6/13/2018 10:15	0.76	Triangle Station	0.80

Fluoride					<u>Operating comments</u>
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation	
units:	Mgals	gallons	mg/L	mg/L	
1	1.29	45	0.75	0.64	Upflow saturator plugged and was taken out of service for cleaning.
2	1.26	47	0.75	0.67	
3	1.17	40	0.80	0.62	
4	1.09	34	0.78	0.57	
5	1.07	44	0.80	0.75	
6	1.18	39	0.73	0.60	
7	1.14	41	0.73	0.65	
8	1.22	42	0.85	0.63	
9	1.15	38	0.83	0.60	
10	1.22	45	0.76	0.67	
11	1.31	42	0.64	0.58	
12	1.29	48	0.73	0.67	
13	1.30	51	0.79	0.70	
14	1.29	48	0.79	0.66	
15	1.31	46	0.80	0.64	
16	1.27	43	0.73	0.61	
17	1.26	2	0.08	0.03	
18	1.17	3	0.08	0.05	
19	1.28	3	0.08	0.04	
20	1.42	3	0.08	0.04	
21	1.36	2	0.08	0.03	
22	1.38	2	0.09	0.03	
23	1.03	1	0.09	0.02	
24	1.06	2	0.09	0.03	
25	1.13	2	0.08	0.03	
26	1.30	29	0.25	0.41	
27	1.28	41	0.44	0.57	
28	1.25	42	0.85	0.61	
29	1.25	50	0.79	0.71	
30	1.13	44	0.70	0.71	
Avg	1.23	30.75	0.53	0.45	
Min	1.03	1.00	0.08	0.02	
Max	1.42	50.51	0.85	0.75	
Total	36.83	922.48			

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Riverside Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080		Notes: See notes below for specific operating conditions.	
Reporting period: June, 2018		Date	GAUD mg/L
Signature: 7/10/2018		6/13/2018 13:20	0.74
		Location	HETL mg/L
		Riverside Station	0.70

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.56	21	0.71	0.67
2	0.85	31	0.71	0.66
3	0.54	20	0.72	0.66
4	0.67	22	0.75	0.60
5	0.67	24	0.72	0.65
6	0.65	24	0.70	0.67
7	0.66	24	0.72	0.65
8	0.63	24	0.72	0.68
9	0.67	24	0.69	0.65
10	0.63	24	0.67	0.68
11	0.74	26	0.66	0.63
12	0.88	30	0.65	0.61
13	0.62	23	0.69	0.67
14	0.72	365	0.51	9.08
15	0.70	15	0.43	0.39
16	0.68	26	0.82	0.69
17	0.88	33	0.81	0.67
18	0.68	25	0.80	0.67
19	0.65	22	0.78	0.61
20	0.59	22	0.78	0.68
21	0.88	33	0.78	0.67
22	0.67	23	0.81	0.62
23	0.70	27	0.80	0.69
24	0.61	23	0.81	0.68
25	0.54	20	0.82	0.67
26	0.69	25	0.82	0.65
27	0.66	25	0.81	0.68
28	0.68	25	0.81	0.66
29	0.63	24	0.80	0.68
30	0.63	24	0.76	0.69
Avg	0.68	35.80	0.74	0.93
Min	0.54	15.00	0.43	0.39
Max	0.88	365.00	0.82	9.08
Total	20.36	1,074.00		

Operating comments

The water line that supplies water to the upflow saturator split causing fluoridation to be out of service on 6/14 and 6/15.

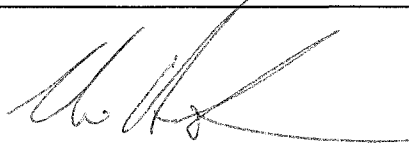
Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: June, 2018

Reporting date: 7/10/2018



Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
1	190,773	1.15	0.8	
2	77,672	1.05	0.4	
3	84,766	1.08	0.4	
4	158,148	1.11	0.7	
5	79,281	1.25	0.4	
6	84,891	1.16	0.5	
7	83,422	1.13	0.4	
8	82,758	1.08	0.5	
9	74,734	1.07	0.4	
10	74,461	1.05	0.3	
11	87,305	1.08	0.5	
12	150,000	1.11	0.9	
13	87,164	1.19	0.5	
14	155,883	1.18	0.9	
15	90,773	1.26	0.5	
16	74,867	1.20	0.4	
17	180,883	1.14	1.1	
18	173,391	1.25	1.0	
19	0	1.32	-	no consumption
20	135,836	1.22	0.8	
21	90,508	1.16	0.7	
22	93,180	1.24	0.6	
23	80,750	1.22	0.6	
24	77,000	1.18	0.5	
25	152,547	1.16	1.1	
26	88,898	1.17	0.6	
27	129,945	1.16	1.0	
28	119,922	1.16	0.8	
29	86,766	1.15	0.7	
30	154,008	1.11	1.1	
Sum	3,200,531		19.1	
Average	106,684	1.2	0.6	
Max		1.3		

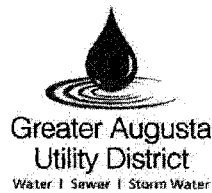
Brian Tarbuck, General Manager
btarbuck@greataugustautilitydistrict.org

Ken Knight, Board Chair
kknight@greataugustautilitydistrict.org

Charlotte Warren, Hallowell voting member
cwarren@greataugustautilitydistrict.org

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ccolwell@greataugustautilitydistrict.org

August 7, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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 July, 2018.

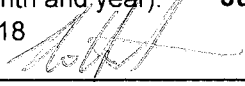
You should find the following documents:

1. Operating report;
2. Water production report;
3. Triangle fluoridation report
4. Riverside fluoridation report; and
5. Togus disinfection report.

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

Sincerely,

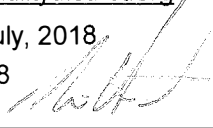
Brian Tarbuck, PE, System Class IV 2026

Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026		
btarbuck@greateraugustautilitydistrict.org			
Reporting period (month and year): July - 18			
Date: August 7, 2018			
Signature: 			

Water production, pH and free chlorine residual							Chemical usage					
Triangle Station			Riverside Station				Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons (MGD)	pH		Calc	Hypo	NaF	Calc	Hypo	NaF
							gal	gal	lbs	gal	gal	lbs
1	1.17	7.20	1.16	0.66	7.59	0.88	6	12		1.6	7	
2	1.27	7.23	1.16	0.49	7.59	0.83	5	14		1.1	5	50
3	1.38	7.21	1.09	0.90	7.60	0.88	7	14		2.1	9	
4	1.36	7.16	1.08	0.91	7.61	0.91	7	14		2.1	10	
5	1.33	7.11	1.07	0.65	7.61	0.88	7	15		1.5	7	
6	1.32	7.09	1.08	0.84	7.61	0.76	3	13		1.9	9	
7	1.19	7.06	1.08	0.59	7.60	0.57	8	13		1.4	7	
8	1.15	7.03	1.09	0.67	7.62	0.90	9	13		1.5	7	
9	1.42	7.03	1.14	0.90	7.63	0.97	8	17	100	2.1	10	
10	1.26	7.04	1.19	0.72	7.62	1.07	7	16		1.6	8	
11	1.36	7.08	1.20	0.72	7.63	0.93	6	17	50	1.7	8	
12	1.46	7.11	1.19	0.91	7.63	0.82	6	18		2.0	10	50
13	1.25	7.10	1.17	0.69	7.63	0.80	6	16		1.6	7	
14	1.21	7.11	1.20	0.75	7.63	0.79	4	15		1.7	8	
15	1.15	7.12	1.18	0.68	7.63	0.77	7	15		1.5	7	
16	1.32	7.14	1.16	0.76	7.63	0.83	7	15	50	1.7	8	
17	1.38	7.14	1.28	0.91	7.63	1.05	4	17		2.1	10	50
18	1.79	7.14	1.36	0.65	7.63	1.17	6	12		1.4	7	
19	0.74	7.10	1.18	0.69	7.63	1.19	6	24		1.6	7	
20	1.39	7.04	1.21	0.76	7.64	1.10	7	26	100	1.7	8	
21	1.15	7.02	1.21	0.69	7.63	1.03	6	4		1.6	7	
22	1.17	7.01	1.20	0.69	7.63	1.03	5	16		1.5	7	
23	1.19	7.00	1.27	0.68	7.63	1.18	4	11		1.6	7	
24	1.40	7.00	1.41	0.72	7.63	1.31	5	18		1.6	8	
25	1.35	6.98	1.37	0.74	7.63	1.21	5	15		1.7	8	
26	1.28	7.01	1.33	0.69	7.63	1.15	4	15		1.5	7	
27	1.30	7.02	1.26	0.53	7.63	1.09	5	15		1.2	6	50
28	1.13	7.04	1.21	0.86	7.63	1.12	4	13		2.0	9	
29	1.18	7.04	1.24	0.68	7.63	1.11	6	13		1.5	7	
30	1.29	7.05	1.23	0.67	7.63	1.09	7	15		1.5	7	
31	1.38	7.05	1.21	0.69	7.64	1.09	8	15		1.6	7	
Summary	39.72	7.08	1.07	22.49	7.62	0.57	186	465	300	51	236	200
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used (fluoride reported separately)				
	Chemical Name	Purpose	Chemical Strength	Total Units
Calc	Calcquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	237 gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	702 gallons
NaF	Sodium fluoride	fluoridation		500 pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
Number of routine samples taken:	28	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.78

Monthly Well Production Report		System Information	
System Type - All GW systems		Treatment plant/pump station: All wells	
System Name:	Greater Augusta Utility District	Community System	
PWSID#:	90080	List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME	Brian Tarbuck		
License #:	2026		
btarbuck@greataugustautilitydistrict.org			
Reporting period: July, 2018			
Date: August 7, 2018			
Signature: 			

Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.00	0.45	0.72	1.17	0.00	0.66	0.66	1.83
2	0.28	0.38	0.62	1.27	0.00	0.49	0.49	1.76
3	0.38	0.70	0.30	1.38	0.00	0.90	0.90	2.28
4	0.43	0.89	0.04	1.36	0.00	0.91	0.91	2.27
5	0.37	0.85	0.12	1.33	0.00	0.65	0.65	1.98
6	0.41	0.89	0.01	1.32	0.00	0.84	0.84	2.16
7	0.24	0.95	0.00	1.19	0.00	0.59	0.59	1.78
8	0.35	0.80	0.00	1.15	0.00	0.67	0.67	1.82
9	0.51	0.72	0.18	1.42	0.00	0.90	0.90	2.32
10	0.78	0.00	0.48	1.26	0.00	0.72	0.72	1.99
11	0.80	0.00	0.56	1.36	0.00	0.72	0.72	2.08
12	0.92	0.17	0.37	1.46	0.00	0.91	0.91	2.37
13	0.73	0.00	0.53	1.25	0.00	0.69	0.69	1.94
14	0.70	0.00	0.51	1.21	0.00	0.75	0.75	1.96
15	0.73	0.00	0.42	1.15	0.00	0.68	0.68	1.83
16	0.30	0.49	0.53	1.32	0.00	0.76	0.76	2.09
17	0.00	0.64	0.75	1.38	0.00	0.91	0.91	2.29
18	0.01	1.13	0.65	1.79	0.00	0.65	0.65	2.43
19	0.00	0.74	0.00	0.74	0.00	0.69	0.69	1.43
20	0.44	0.95	0.00	1.39	0.00	0.76	0.76	2.15
21	0.33	0.82	0.00	1.15	0.00	0.69	0.69	1.84
22	0.30	0.87	0.00	1.17	0.00	0.69	0.69	1.85
23	0.00	0.60	0.59	1.19	0.00	0.68	0.68	1.87
24	0.00	0.49	0.91	1.40	0.00	0.72	0.72	2.13
25	0.00	0.45	0.91	1.35	0.00	0.74	0.74	2.09
26	0.00	0.56	0.72	1.28	0.00	0.69	0.69	1.97
27	0.00	0.39	0.91	1.30	0.00	0.53	0.53	1.83
28	0.00	0.46	0.67	1.13	0.00	0.86	0.86	1.99
29	0.00	0.39	0.79	1.18	0.00	0.68	0.68	1.86
30	0.20	0.77	0.32	1.29	0.00	0.67	0.67	1.95
31	0.39	0.98	0.00	1.38	0.00	0.69	0.69	2.06
Sum	9.60	17.53	12.59	39.72	0.00	22.49	22.49	62.21

64% Triangle
36% Riverside

MGD
1.28

MGD
0.73

MGD
2.01

Monthly Fluoride Report		System Information			
System Type - Fluoride Systems		Treatment plant: Triangle Station			
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride			
PWSID#: 90080					
Reporting period:	July, 2018	Notes: See notes below for specific operating conditions.			
Signature:	8/7/2018	Date	GAUD mg/L	Location	HETL mg/L
		7/18/2018 13:30	0.75	Triangle Station	0.7

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	1.17	46	0.58	0.72
2	1.27	56	0.58	0.79
3	1.38	60	0.60	0.79
4	1.36	55	0.51	0.72
5	1.33	66	0.52	0.89
6	1.32	57	0.71	0.77
7	1.19	54	0.60	0.81
8	1.15	54	0.46	0.84
9	1.42	62	0.67	0.78
10	1.26	61	0.88	0.86
11	1.36	54	0.78	0.71
12	1.46	56	0.79	0.69
13	1.25	54	0.77	0.77
14	1.21	46	0.76	0.69
15	1.15	47	0.70	0.74
16	1.32	50	0.68	0.69
17	1.38	59	0.78	0.76
18	1.79	69	0.72	0.69
19	0.74	31	0.59	0.77
20	1.39	52	0.69	0.67
21	1.15	44	0.80	0.69
22	1.17	47	0.81	0.73
23	1.19	51	0.78	0.77
24	1.40	52	0.78	0.66
25	1.35	59	0.76	0.78
26	1.28	57	0.70	0.80
27	1.30	50	0.65	0.70
28	1.13	54	0.57	0.87
29	1.18	47	0.49	0.72
30	1.29	59	0.28	0.82
31	1.38	n/a	0.08	
Avg	1.28	53.54	0.65	0.76
Min	0.74	31.30	0.08	0.66
Max	1.79	68.81	0.88	0.89
Total	39.72	1,606.09		

Operating comments

fluoride offline for tank maintenance
problem with fluoride meter records

Monthly Fluoride Report		System Information			
System Type - Fluoride Systems		Treatment plant: Riverside Station			
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride			
PWSID#: 90080					
Reporting period: July, 2018		Notes: See notes below for specific operating conditions.			
Signature: 		Date	GAUD mg/L	Location	HETL mg/L
8/7/2018		7/18/2018 10:05	0.81	Riverside Station	0.7

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.66	24	0.72	0.65
2	0.49	15	0.70	0.55
3	0.90	32	0.71	0.64
4	0.91	32	0.71	0.63
5	0.65	23	0.82	0.64
6	0.84	29	0.90	0.62
7	0.59	21	0.87	0.64
8	0.67	23	0.76	0.62
9	0.90	32	0.72	0.64
10	0.72	25	0.68	0.62
11	0.72	25	0.66	0.62
12	0.91	30	0.68	0.59
13	0.69	23	0.73	0.60
14	0.75	26	0.77	0.63
15	0.68	24	0.78	0.63
16	0.76	26	0.80	0.61
17	0.91	26	0.80	0.51
18	0.65	22	0.86	0.61
19	0.69	23	0.89	0.60
20	0.76	24	0.86	0.57
21	0.69	22	0.85	0.57
22	0.69	22	0.86	0.58
23	0.68	21	0.84	0.55
24	0.72	23	0.82	0.57
25	0.74	23	0.78	0.56
26	0.69	22	0.73	0.57
27	0.53	14	0.70	0.47
28	0.86	27	0.76	0.56
29	0.68	22	0.82	0.59
30	0.67	21	0.84	0.57
31	0.69	21	0.84	0.55
Avg	0.73	23.97	0.78	0.59
Min	0.49	14.00	0.66	0.47
Max	0.91	32.00	0.90	0.65
Total	22.49	743.00		

Operating comments

Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: July, 2018

Reporting date: 8/7/2018



Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
1	80,484	1.11	0.6	
2	89,305	1.07	0.6	
3	164,172	1.02	1.2	
4	88,367	0.72	0.1	
5	161,898	1.00	1.2	
6	135,164	1.10	1.0	
7	108,422	1.17	0.9	
8	79,008	1.18	0.7	
9	90,508	1.21	0.8	
10	163,500	1.28	1.6	
11	152,813	1.33	1.4	
12	105,344	1.21	1.1	
13	168,320	1.20	1.6	
14	81,148	1.18	0.8	
15	146,258	1.23	1.4	
16	290,641	1.12	2.9	
17	120,188	0.92	1.2	
18	166,039	1.04	1.1	
19	102,406	1.31	0.9	
20	142,383	1.14	1.4	
21	80,211	1.23	0.7	
22	79,281	1.36	0.7	
23	176,602	1.23	1.7	
24	167,117	1.17	1.5	
25	177,539	1.28	1.4	
26	93,445	1.30	0.7	
27	169,922	1.25	1.3	
28	84,359	1.27	0.6	
29	155,477	1.25	1.1	
30	136,633	1.28	1.1	
31	89,977	1.34	0.8	
Sum	4,046,930		34.1	
Average	130,546	1.2	1.1	
Max		1.4		

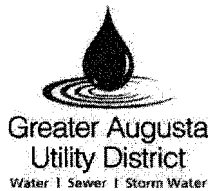
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September 7, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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 August, 2018.

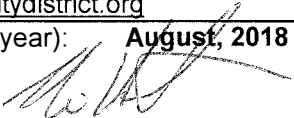
You should find the following documents:

1. Operating report;
2. Water production report;
3. Triangle fluoridation report
4. Riverside fluoridation report; and
5. Togus disinfection report.

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

Sincerely,

Brian Tarbuck, PE, System Class IV 2026

Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026 btarbuck@greataugustautilitydistrict.org	pH analyzer at Triangle is under-reporting. We will do 2 grab samples a week until a new continuous pH analyzer is installed. pH is not actively adjusted at this site. Report indicates bench instrument samples at the station.	
Reporting period (month and year):	August, 2018		
Date:	September 7, 2018		
Signature:			

Water production, pH and free chlorine residual							Chemical usage					
Triangle Station			Riverside Station				Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons (MGD)	pH		Calc	Hypo	NaF	Calc	Hypo	NaF
							gal	gal	lbs	gal	gal	lbs
1	1.30		1.22	0.78	7.64	1.12	6	15	0	1.7	8	0
2	1.24		1.24	0.72	7.64	1.10	8	15	0	1.7	8	50
3	1.34		1.24	0.76	7.65	1.10	6	15	0	1.7	8	0
4	1.14		1.25	0.75	7.65	1.10	2	14	0	1.6	8	0
5	1.07		1.25	0.57	7.65	1.08	6	13	0	1.3	6	0
6	1.94	7.87	1.26	0.73	7.65	1.09	10	23	0	1.7	8	0
7	0.95		1.29	0.91	7.64	1.08	8	12	0	2.0	10	0
8	1.22		1.25	0.67	7.64	1.06	7	15	0	1.5	7	50
9	1.32		1.30	0.77	7.65	0.97	5	17	550	1.8	8	0
10	1.34		1.29	0.70	7.66	0.95	5	16	0	1.5	8	0
11	1.06		1.29	0.67	7.66	0.93	6	14	0	1.5	7	0
12	1.22		1.30	0.70	7.66	0.93	4	16	0	1.6	7	0
13	1.25		1.28	0.73	7.66	0.93	6	16	0	1.6	8	0
14	1.24	7.80	1.22	0.70	7.65	0.91	5	16	0	1.6	7	0
15	1.30		1.34	0.73	7.65	0.89	4	14	0	1.6	8	50
16	1.29		1.42	0.78	7.65	0.90	5	17	0	1.8	8	0
17	1.25		1.29	0.70	7.65	0.88	1	14	50	1.5	7	50
18	1.89		1.32	0.64	7.64	0.88	2	13	0	1.5	7	0
19	0.84		1.18	0.70	7.64	0.87	7	10	0	1.5	7	0
20	1.32		1.12	0.70	7.64	0.89	8	12	0	1.6	7	0
21	1.34	7.83	1.18	0.75	7.66	0.91	8	16	0	1.7	8	0
22	1.19		1.25	0.67	7.65	0.94	6	13	100	1.5	8	0
23	1.32		1.27	0.72	7.64	0.91	6	17	0	1.6	8	0
24	1.33		1.17	0.70	7.64	0.96	8	15	0	1.6	8	0
25	0.98		1.16	0.67	7.64	0.93	5	11	0	1.5	8	0
26	1.52		1.18	0.68	7.64	0.94	7	18	0	1.6	8	0
27	1.69		1.20	0.71	7.64	0.94	9	21	50	1.6	9	0
28	1.15	7.52	1.13	0.77	7.63	0.96	5	14	0	1.7	10	0
29	1.52		1.24	0.77	7.64	1.04	6	19	0	1.7	10	0
30	0.93		1.31	0.76	7.64	1.27	2	11	0	1.7	9	0
31	1.24		1.37	0.75	7.65	1.28	5	16	50	1.7	9	0
Summary	39.72	7.76	1.12	22.36	7.65	0.87	177	468	800	50	248	200
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used (fluoride reported separately)				
	Chemical Name	Purpose	Chemical Strength	Total Units
Calc	Calciquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	227 gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	717 gallons
NaF	Sodium fluoride	fluoridation		1,000 pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
Number of routine samples taken:	28	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.71

Monthly Well Production Report		System Information	
System Type - All GW systems		Treatment plant/pump station: All wells	
System Name:	Greater Augusta Utility District	Community System	
PWSID#:	90080	List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME	Brian Tarbuck		
License #:	2026		
btarbuck@greteraugustautilitydistrict.org			
Reporting period: August, 2018			
Date: September 7, 2018			
Signature: 			

Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.36	0.76	0.19	1.30	0.00	0.76	0.76	2.07
2	0.40	0.84	0.00	1.24	0.00	0.70	0.70	1.94
3	0.39	0.95	0.00	1.34	0.00	0.74	0.74	2.08
4	0.26	0.88	0.00	1.14	0.00	0.73	0.73	1.87
5	0.33	0.73	0.00	1.07	0.00	0.55	0.55	1.62
6	0.58	0.88	0.48	1.94	0.00	0.71	0.71	2.65
7	0.16	0.71	0.08	0.95	0.00	0.88	0.88	1.83
8	0.30	0.74	0.17	1.22	0.00	0.65	0.65	1.87
9	0.33	0.99	0.00	1.32	0.00	0.75	0.75	2.06
10	0.50	0.84	0.00	1.34	0.00	0.68	0.68	2.02
11	0.34	0.72	0.00	1.06	0.00	0.65	0.65	1.70
12	0.29	0.93	0.00	1.22	0.00	0.68	0.68	1.89
13	0.60	0.46	0.19	1.25	0.00	0.70	0.70	1.96
14	0.85	0.00	0.40	1.24	0.00	0.68	0.68	1.93
15	0.82	0.00	0.48	1.30	0.00	0.71	0.71	2.01
16	0.75	0.00	0.53	1.29	0.00	0.75	0.75	2.04
17	0.72	0.00	0.52	1.25	0.00	0.69	0.69	1.93
18	0.89	0.14	0.85	1.89	0.00	0.62	0.62	2.51
19	0.57	0.00	0.27	0.84	0.00	0.68	0.68	1.53
20	0.46	0.44	0.42	1.32	0.00	0.68	0.68	1.99
21	0.00	0.63	0.72	1.34	0.00	0.73	0.73	2.07
22	0.00	0.53	0.66	1.19	0.00	0.65	0.65	1.85
23	0.00	0.41	0.91	1.32	0.00	0.70	0.70	2.02
24	0.00	0.66	0.67	1.33	0.00	0.68	0.68	2.01
25	0.00	0.36	0.62	0.98	0.00	0.65	0.65	1.62
26	0.18	0.58	0.75	1.52	0.00	0.66	0.66	2.18
27	0.37	1.00	0.32	1.69	0.00	0.69	0.69	2.38
28	0.37	0.48	0.30	1.15	0.00	0.75	0.75	1.89
29	0.49	0.66	0.37	1.52	0.00	0.74	0.74	2.26
30	0.23	0.57	0.13	0.93	0.00	0.74	0.74	1.67
31	0.41	0.83	0.00	1.24	0.00	0.73	0.73	1.97
Sum	11.95	17.73	10.04	39.72	0.00	21.72	21.72	61.45

65% Triangle

MGD

MGD

MGD

35% Riverside

1.28

0.70

1.98

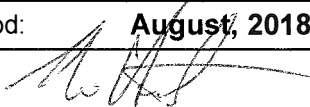
Monthly Fluoride Report		System Information			
System Type - Fluoride Systems		Treatment plant: Triangle Station			
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride			
PWSID#: 90080					
Reporting period:	August, 2018	Notes: See notes below for specific operating conditions.			
Signature:	9/7/2018	Date	GAUD mg/L	Location	HETL mg/L
		8/14/18 11:40 AM		Triangle Station	0.7

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	1.30	3.0	0.08	0.04
2	1.24	3.0	0.08	0.04
3	1.34	5.0	0.08	0.07
4	1.14	4.0	0.08	0.06
5	1.07	4.0	0.09	0.07
6	1.94	5.0	0.08	0.05
7	0.95	6.0	0.08	0.11
8	1.22	39.5	0.08	0.58
9	1.32	92.5	0.41	1.27
10	1.34	55.6	0.91	0.75
11	1.06	39.4	0.89	0.67
12	1.22	45.5	0.83	0.67
13	1.25	40.4	0.74	0.58
14	1.24	46.4	0.78	0.67
15	1.30	48.4	0.69	0.67
16	1.29	49.5	0.65	0.69
17	1.25	37.3	0.67	0.54
18	1.89	49.8	0.70	0.47
19	0.84	29.3	0.71	0.62
20	1.32	45.5	0.73	0.62
21	1.34	46.4	0.78	0.62
22	1.19	37.3	0.76	0.56
23	1.32	45.6	0.76	0.62
24	1.33	48.4	0.77	0.66
25	0.98	32.3	0.74	0.60
26	1.52	52.4	0.75	0.62
27	1.69	51.5	0.67	0.55
28	1.15	48.4	0.67	0.76
29	1.52	47.4	0.66	0.56
30	0.93	40.4	0.69	0.78
31	1.24	43.4	0.70	0.63
Avg	1.28	36.86	0.56	0.52
Min	0.84	3.00	0.08	0.04
Max	1.94	92.51	0.91	1.27
Total	39.72	1,142.63		

Operating comments

fluoridation system offline 7/30 to 8/9

refilled fluoride upflow saturator

Monthly Fluoride Report		System Information			
System Type - Fluoride Systems		Treatment plant: Riverside Station			
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride			
PWSID#: 90080					
Reporting period: August, 2018		Notes: See notes below for specific operating conditions.			
Signature: 		Date	GAUD mg/L	Location	HETL mg/L
9/7/2018		8/6/2018 11:30	0.79	Riverside Station	0.7

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.78	24	0.83	0.55
2	0.72	21	0.82	0.52
3	0.76	24	0.80	0.57
4	0.75	24	0.77	0.57
5	0.57	18	0.79	0.57
6	0.73	24	0.77	0.59
7	0.91	29	0.74	0.57
8	0.67	19	0.74	0.51
9	0.77	25	0.75	0.58
10	0.70	22	0.78	0.57
11	0.67	22	0.82	0.59
12	0.70	22	0.84	0.57
13	0.73	24	0.83	0.60
14	0.70	22	0.78	0.56
15	0.73	21	0.76	0.52
16	0.78	25	0.78	0.58
17	0.70	20	0.82	0.51
18	0.64	21	0.79	0.59
19	0.70	22	0.84	0.56
20	0.70	22	0.84	0.57
21	0.75	24	0.86	0.57
22	0.67	22	0.84	0.59
23	0.72	19	0.82	0.48
24	0.70	22	0.82	0.56
25	0.67	21	0.83	0.57
26	0.68	22	0.83	0.58
27	0.71	23	0.78	0.58
28	0.77	24	0.71	0.56
29	0.77	25	0.69	0.59
30	0.76	24	0.71	0.57
31	0.75	23	0.77	0.55
Avg	0.72	22.58	0.79	0.56
Min	0.57	18.00	0.69	0.48
Max	0.91	29.00	0.86	0.60
Total	22.36	700.00		

Operating comments

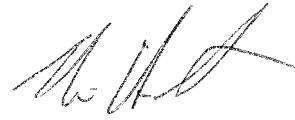
Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: July, 2018

Reporting date: 9/7/2018



Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
1	165,378	1.26	1.2	
2	179,813	1.20	1.2	
3	92,375	1.14	0.6	
4	156,555	1.16	0.9	
5	80,477	1.16	0.5	
6	161,633	1.15	1.0	
7	106,953	1.09	0.8	
8	168,313	1.14	1.1	
9	176,344	0.96	1.2	
10	90,367	1.11	0.7	
11	78,609	1.33	0.7	
12	78,078	1.23	0.7	
13	169,383	1.21	1.7	
14	171,125	1.24	1.5	
15	97,594	1.14	0.8	
16	168,047	1.10	1.7	
17	87,703	1.13	0.8	
18	158,555	0.79	0.8	
19	78,211	1.10	0.8	
20	89,969	1.24	0.9	
21	161,367	1.14	1.6	
22	93,984	0.84	0.6	
23	165,773	0.96	1.5	
24	83,961	1.08	0.8	
25	153,875	1.08	1.5	
26	78,609	1.05	0.7	
27	137,430	1.10	1.3	
28	116,844	1.03	1.2	
29	178,883	1.04	1.5	
30	97,188	1.20	1.0	
31	158,695	1.43	1.6	
Sum	3,982,089		32.9	
Average	128,454	1.1	1.1	
Max		1.4		

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Cary Colwell, Hallowell ex-officio member
ccolwell@greateraugustautilitydistrict.org

October 9, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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 September, 2018.

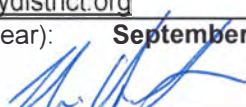
You should find the following documents:

1. Operating report;
2. Water production report;
3. Triangle fluoridation report
4. Riverside fluoridation report; and
5. Togus disinfection report.

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

Sincerely,

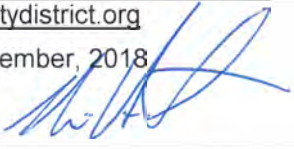
Brian Tarbuck, PE, System Class IV 2026

Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026	pH analyzer unreliable at Triangle so not reported. New analyzer active on 10/2/2018. We don't actively adjust pH.	
btarbuck@greateraugustautilitydistrict.org		Ran 21 bacteria samples instead of the usual 28 in September as bottles arrived late.	
Reporting period (month and year): September - 18			
Date: October 5, 2018			
Signature: 			

Water production, pH and free chlorine residual							Chemical usage					
Triangle Station			Riverside Station				Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons (MGD)	pH		Calc	Hypo	NaF	Calc	Hypo	NaF
							gal	gal	lbs	gal	gal	lbs
1	1.13		1.36	0.62	7.65	1.22	6	12		1.4	8	
2	1.15		1.35	0.64	7.65	1.20	5	14		1.5	8	
3	1.17		1.31	0.68	7.64	1.22	6	15		1.6	8	
4	1.37		1.28	0.70	7.64	1.15	3	16	50	1.6	9	
5	1.22		1.22	0.71	7.65	1.20	6	14		1.6	9	50
6	1.11		1.04	0.74	7.65	1.05	2	13		1.7	9	
7	1.30		1.19	0.71	7.65	1.09	5	13	100	1.6	8	
8	1.18		1.20	0.66	7.65	1.04	4	13		1.5	8	
9	0.88		1.18	0.64	7.65	1.02	7	11		1.4	8	
10	1.32		1.16	0.68	7.65	1.08	7	15		1.6	8	
11	1.25	7.59	1.16	0.65	7.65	1.13	4	13		1.5	8	
12	1.21		1.22	0.72	7.65	1.11	3	13		1.7	9	
13	1.32		1.27	0.58	7.65	1.09	7	17	50	1.3	7	50
14	1.22		1.31	0.73	7.65	1.07	7	15		1.7	9	
15	1.18		1.30	0.58	7.65	1.05	7	15		1.3	7	
16	1.29		1.31	0.63	7.65	1.04	6	15		1.5	8	
17	1.35	7.55	1.31	0.72	7.65	1.02	6	17		1.6	9	
18	1.23		1.27	0.66	7.65	1.00	5	15		1.5	8	
19	1.22		1.25	0.69	7.65	1.08	3	15		1.6	8	
20	1.90		1.25	0.86	7.66	1.10	4	24	50	2.0	10	
21	1.19		1.26	0.71	7.65	1.06	3	15		1.6	8	
22	1.12		1.24	0.56	7.65	1.07	3	13		1.3	7	
23	1.06		1.24	0.63	7.66	1.07	7	14		1.4	7	
24	1.39	7.49	1.24	0.35	7.65	1.07	5	16		0.9	4	50
25	1.21		1.23	0.88	7.66	1.11	4	14		2.0	11	
26	2.02		1.25	0.88	7.66	1.07	4	25		2.0	11	
27	1.08		1.24	0.60	7.66	1.02	3	14	50	1.5	7	
28	1.50		1.22	0.88	7.66	1.02	3	18		2.0	11	50
29	1.09		1.27	0.88	7.66	1.03	4	14		2.0	11	
30	0.93		1.26	0.79	7.66	0.91	3	12		1.8	9	
Summary	37.60	7.54	1.04	20.75	7.65	0.91	144	451	300	48	249	200
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used (fluoride reported separately)					
	Chemical Name	Purpose	Chemical Strength	Total	Units
Calc	Calciquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	192	gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	699	gallons
NaF	Sodium fluoride	fluoridation		500	pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
# of routine samples taken:	21	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.71

Monthly Well Production Report			System Information	
System Type - All GW systems			Treatment plant/pump station: All wells	
System Name: Greater Augusta Utility District		Community System		
PWSID#: 90080		List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):		
Designated operator name and ME: Brian Tarbuck				
License #: 2026				
btarbuck@greteraugustautilitydistrict.org				
Reporting period: September, 2018				
Date: October 6, 2018				
Signature: 				

Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.32	0.80	0.00	1.13	0.00	0.62	0.62	1.75
2	0.26	0.88	0.00	1.15	0.00	0.64	0.64	1.79
3	0.38	0.79	0.00	1.17	0.00	0.68	0.68	1.84
4	0.51	0.86	0.00	1.37	0.00	0.70	0.70	2.06
5	0.56	0.34	0.31	1.22	0.00	0.71	0.71	1.93
6	0.70	0.15	0.26	1.11	0.00	0.74	0.74	1.85
7	0.75	0.00	0.55	1.30	0.00	0.71	0.71	2.01
8	0.69	0.21	0.28	1.18	0.00	0.66	0.66	1.84
9	0.67	0.00	0.21	0.88	0.00	0.64	0.64	1.52
10	0.30	0.44	0.58	1.32	0.00	0.68	0.68	2.00
11	0.13	0.38	0.75	1.25	0.00	0.65	0.65	1.91
12	0.33	0.36	0.51	1.21	0.00	0.72	0.72	1.93
13	0.19	0.40	0.74	1.32	0.00	0.58	0.58	1.91
14	0.17	0.44	0.62	1.22	0.00	0.73	0.73	1.95
15	0.00	0.45	0.73	1.18	0.00	0.58	0.58	1.76
16	0.00	0.60	0.69	1.29	0.00	0.63	0.63	1.92
17	0.34	0.68	0.33	1.35	0.00	0.72	0.72	2.07
18	0.36	0.58	0.29	1.23	0.00	0.66	0.66	1.89
19	0.36	0.86	0.00	1.22	0.00	0.69	0.69	1.91
20	0.55	0.90	0.45	1.90	0.00	0.86	0.86	2.75
21	0.30	0.89	0.00	1.19	0.00	0.71	0.71	1.91
22	0.30	0.82	0.00	1.12	0.00	0.56	0.56	1.67
23	0.28	0.78	0.00	1.06	0.00	0.63	0.63	1.68
24	0.54	0.85	0.00	1.39	0.00	0.35	0.35	1.74
25	0.46	0.75	0.00	1.21	0.00	0.88	0.88	2.10
26	0.64	1.12	0.26	2.02	0.00	0.88	0.88	2.90
27	0.17	0.91	0.00	1.08	0.00	0.60	0.60	1.68
28	0.47	0.71	0.32	1.50	0.00	0.88	0.88	2.38
29	0.04	0.81	0.25	1.09	0.00	0.88	0.88	1.98
30	0.00	0.86	0.08	0.93	0.00	0.79	0.79	1.72
Sum	10.79	18.62	8.19	37.60	0.00	20.75	20.75	58.35

64% Triangle
36% Riverside

MGD
1.25

MGD
0.69

MGD
1.94

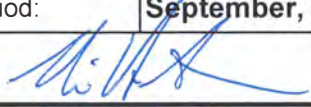
Monthly Fluoride Report

System Type - Fluoride Systems

System Name: Greater Augusta Utility District

PWSID#: 90080

Reporting period: September, 2018

Signature: 

10/5/2018

System Information

Treatment plant: Triangle Station

Chemical Used: Sodium Fluoride

Notes: See notes below for specific operating conditions.

Date	GAUD mg/L	Location	HETL mg/L
9/24/18 10:45 AM		Triangle Station	0.7

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	1.13	39	0.71	0.63
2	1.15	43	0.68	0.68
3	1.17	41	0.66	0.64
4	1.37	49	0.65	0.65
5	1.22	42	0.68	0.63
6	1.11	46	0.71	0.75
7	1.30	42	0.78	0.59
8	1.18	39	0.77	0.60
9	0.88	32	0.80	0.66
10	1.32	41	0.81	0.56
11	1.25	39	0.78	0.57
12	1.21	34	0.79	0.51
13	1.32	40	0.77	0.55
14	1.22	39	0.77	0.58
15	1.18	38	0.78	0.59
16	1.29	43	0.76	0.61
17	1.35	41	0.73	0.55
18	1.23	43	0.71	0.64
19	1.22	38	0.75	0.57
20	1.90	60	0.76	0.57
21	1.19	40	0.78	0.61
22	1.12	37	0.77	0.60
23	1.06	35	0.80	0.60
24	1.39	47	0.82	0.61
25	1.21	37	0.82	0.55
26	2.02	63	0.76	0.56
27	1.08	35	0.66	0.59
28	1.50	52	0.57	0.62
29	1.09	35	0.60	0.58
30	0.93	33	0.60	0.64
Avg	1.25	41.75	0.73	0.60
Min	0.88	32.35	0.57	0.51
Max	2.02	62.73	0.82	0.75
Total	37.60	1,252.61		

Operating comments

Monthly Fluoride Report System Type - Fluoride Systems			System Information			
System Name:	Greater Augusta Utility District		Treatment plant: Riverside Station			
PWSID#: 90080			Chemical Used: Sodium Fluoride			
Reporting period: September, 2018			Notes: See notes below for specific operating conditions.			
Signature: 10/4/2018			Date	GAUD mg/L	Location	HETL mg/L
			9/24/2018 8:50	0.67	Riverside Station	0.5

Fluoride					<u>Operating comments</u>
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation	
units:	Mgals	gallons	mg/L	mg/L	
1	0.62	21	0.78	0.61	
2	0.64	20	0.78	0.56	
3	0.68	23	0.74	0.61	
4	0.70	22	0.73	0.57	
5	0.71	19	0.70	0.48	
6	0.74	16	0.58	0.39	
7	0.71	24	0.79	0.61	
8	0.66	22	0.82	0.60	
9	0.64	21	0.85	0.59	
10	0.68	23	0.79	0.61	
11	0.65	23	0.71	0.63	
12	0.72	24	0.67	0.60	
13	0.58	17	0.66	0.52	
14	0.73	25	0.66	0.62	
15	0.58	19	0.67	0.59	
16	0.63	21	0.65	0.60	
17	0.72	24	0.63	0.60	
18	0.66	22	0.63	0.60	
19	0.69	23	0.72	0.60	
20	0.86	29	0.76	0.61	
21	0.71	24	0.75	0.61	
22	0.56	19	0.72	0.62	
23	0.63	22	0.71	0.63	
24	0.35	10	0.71	0.52	
25	0.88	30	0.83	0.61	
26	0.88	31	0.75	0.63	
27	0.60	21	0.74	0.63	
28	0.88	29	0.79	0.59	
29	0.88	31	0.83	0.63	
30	0.79	27	0.84	0.62	
Avg	0.69	22.73	0.73	0.59	
Min	0.35	10.00	0.58	0.39	
Max	0.88	31.00	0.85	0.63	
Total	20.75	682.00			

Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: September, 2018

Reporting date: 10/9/2018

Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
1	77,938	1.60	0.9	
2	79,281	1.69	0.9	
3	116,172	1.53	1.3	
4	134,898	1.33	1.5	
5	166,438	1.37	1.6	
6	96,391	1.43	0.8	
7	158,156	1.39	1.1	
8	73,133	1.36	0.4	
9	73,391	1.45	0.5	
10	86,633	1.42	0.6	
11	84,758	1.29	0.5	
12	163,906	1.19	1.1	
13	89,836	1.17	0.6	
14	157,758	1.19	1.0	
15	81,820	1.26	0.5	
16	81,148	1.24	0.6	
17	162,836	1.24	1.1	
18	93,984	1.17	0.7	
19	90,641	1.38	0.7	
20	173,258	1.24	1.4	
21	174,734	1.26	1.3	
22	77,805	1.24	0.6	
23	75,273	1.17	0.6	
24	92,641	1.14	0.7	
25	148,664	1.32	1.2	
26	162,438	1.33	1.4	
27	86,492	1.27	0.7	
28	97,063	1.03	0.8	
29	155,750	1.11	1.2	
30	78,875	1.13	0.7	
Sum	3,392,109		27.0	
Average	113,070	1.3	0.9	
Max		1.7		

Brian Tarbuck, General Manager
btarbuck@greateraugustautilitydistrict.org

Ken Knight, Board Chair
kknight@greateraugustautilitydistrict.org

Charlotte Warren, Hallowell voting member
cwarren@greateraugustautilitydistrict.org

Bob Corey, Treasurer
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Kirsten Hebert
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November 5, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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 October, 2018.

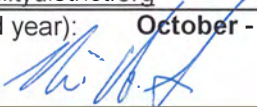
You should find the following documents:

1. Operating report;
2. Water production report;
3. Triangle fluoridation report
4. Riverside fluoridation report; and
5. Togus disinfection report.

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

Sincerely,

Brian Tarbuck, PE, System Class IV 2026

Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name	Brian Tarbuck	Triangle pH analyzer was replaced on October 4th.	
and ME License #:	2026		
btarbuck@greataugustautilitydistrict.org			
Reporting period (month and year): October - 18			
Date: November 5, 2018			
Signature: 			

Water production, pH and free chlorine residual							Chemical usage					
Triangle Station				Riverside Station			Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons	pH	Average free chlorine residual	Calc	Hypo	NaF	Calc	Hypo	NaF
				(MGD)			gal	gal	lbs	gal	gal	lbs
1	1.32	0.00	1.24	0.57	7.67	1.05	3.2	14	0	1.4	7	0
2	1.13	0.00	1.22	0.66	7.66	1.09	3.2	14	2	1.5	8	0
3	1.05	3.41	1.23	0.69	7.67	1.08	2.1	15	0	1.5	9	0
4	1.11	7.63	1.29	0.64	7.67	1.08	2.4	16	0	1.5	8	0
5	1.08	7.66	1.34	0.69	7.67	1.09	2.7	19	2	1.5	9	0
6	1.01	7.74	1.32	0.65	7.67	1.11	2.4	15	0	1.5	8	0
7	0.90	7.81	1.31	0.64	7.67	1.10	2.1	13	0	1.5	8	0
8	1.06	7.86	1.31	0.68	7.67	1.09	2.4	15	0	1.5	9	0
9	1.15	7.80	1.33	0.62	7.68	1.08	3.2	17	0	1.4	8	0
10	1.26	7.73	1.34	0.58	7.67	1.11	3.8	19	0	1.3	8	0
11	0.82	7.71	1.32	0.84	7.68	1.35	3.8	12	0	1.9	11	0
12	1.16	7.72	1.31	0.59	7.68	1.33	3.0	15	1	1.4	8	50
13	0.89	7.72	1.41	0.62	7.68	1.28	2.7	14	0	1.4	8	0
14	0.97	7.69	1.38	0.59	7.68	1.30	3.0	12	0	1.4	8	0
15	1.02	7.69	1.42	0.64	7.68	1.29	2.7	14	0	1.5	8	0
16	0.92	7.69	1.22	0.67	7.68	1.28	3.5	11	0	1.5	9	0
17	1.23	7.69	1.42	0.68	7.69	1.28	3.0	17	0	1.6	9	0
18	1.12	7.67	1.39	0.59	7.69	1.27	3.8	15	0	1.3	8	0
19	1.07	7.66	1.39	0.68	7.69	1.26	3.0	12	0	1.6	9	0
20	0.96	7.64	1.40	0.62	7.69	1.24	3.2	13	0	1.4	8	0
21	0.81	7.63	1.39	0.59	7.69	1.19	3.0	11	0	1.4	7	50
22	1.10	7.62	1.43	0.58	7.68	1.21	2.4	15	0	1.3	7	0
23	0.96	7.60	1.41	0.48	7.68	1.19	2.1	13	1	1.1	6	0
24	0.93	7.54	1.44	0.82	7.69	1.27	2.1	13	0	1.9	10	0
25	1.31	7.53	1.36	0.64	7.68	1.21	2.7	17	0	1.5	8	0
26	1.07	7.50	1.36	0.59	7.68	1.21	2.4	10	2	1.3	7	0
27	0.76	7.47	1.35	0.63	7.68	1.10	1.3	11	0	1.4	7	0
28	0.78	7.47	1.38	0.55	7.68	1.16	1.9	11	0	1.3	6	0
29	0.95	7.50	1.33	0.64	7.68	1.17	2.4	12	0	1.5	8	0
30	0.87	7.53	1.32	0.59	7.68	1.18	2.7	13	0	1.4	7	0
31	0.93	7.52	1.31	0.66	7.69	1.13	2.1	14	0	1.5	7	0
Summary	31.71	7.01	1.22	19.73	7.68	1.05	84	434	8	45	244	100
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used
(fluoride reported separately)

	Chemical Name	Purpose	Chemical Strength	Total	Units
Calc	Calcquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	130	gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	678	gallons
NaF	Sodium fluoride	fluoridation		108	pounds

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

Number of routine samples taken:	35	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.78

Monthly Well Production Report		System Information	
System Type - All GW systems		Treatment plant/pump station: All wells	
System Name:	Greater Augusta Utility District	Community System	
PWSID#:	90080	List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME	Brian Tarbuck		
License #:	2026		
btarbuck@greteraugustautilitydistrict.org			
Reporting period:	October, 2018		
Date:	November 5, 2018		
Signature:			

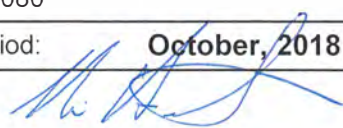
Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.23	0.64	0.45	1.32	0.00	0.57	0.57	1.89
2	0.49	0.32	0.32	1.13	0.00	0.66	0.66	1.79
3	0.51	0.25	0.28	1.05	0.00	0.69	0.69	1.73
4	0.55	0.27	0.29	1.11	0.00	0.64	0.64	1.75
5	0.52	0.28	0.28	1.08	0.00	0.69	0.69	1.76
6	0.53	0.19	0.29	1.01	0.00	0.65	0.65	1.66
7	0.50	0.16	0.24	0.90	0.00	0.64	0.64	1.55
8	0.59	0.20	0.28	1.06	0.00	0.68	0.68	1.75
9	0.61	0.27	0.28	1.15	0.00	0.62	0.62	1.77
10	0.57	0.38	0.31	1.26	0.00	0.58	0.58	1.84
11	0.38	0.28	0.16	0.82	0.00	0.84	0.84	1.66
12	0.66	0.23	0.27	1.16	0.00	0.59	0.59	1.75
13	0.48	0.15	0.26	0.89	0.00	0.62	0.62	1.51
14	0.52	0.18	0.27	0.97	0.00	0.59	0.59	1.56
15	0.22	0.41	0.39	1.02	0.00	0.64	0.64	1.66
16	0.21	0.30	0.41	0.92	0.00	0.67	0.67	1.59
17	0.00	0.32	0.91	1.23	0.00	0.68	0.68	1.91
18	0.17	0.42	0.54	1.12	0.00	0.59	0.59	1.71
19	0.17	0.42	0.49	1.07	0.00	0.68	0.68	1.75
20	0.11	0.37	0.47	0.96	0.00	0.62	0.62	1.58
21	0.00	0.32	0.49	0.81	0.00	0.59	0.59	1.40
22	0.10	0.39	0.61	1.10	0.00	0.58	0.58	1.67
23	0.34	0.45	0.17	0.96	0.00	0.48	0.48	1.44
24	0.24	0.69	0.00	0.93	0.00	0.82	0.82	1.75
25	0.42	0.80	0.09	1.31	0.00	0.64	0.64	1.96
26	0.37	0.71	0.00	1.07	0.00	0.59	0.59	1.67
27	0.18	0.58	0.00	0.76	0.00	0.63	0.63	1.39
28	0.16	0.61	0.00	0.78	0.00	0.55	0.55	1.33
29	0.47	0.27	0.21	0.95	0.00	0.64	0.64	1.60
30	0.75	0.00	0.12	0.87	0.00	0.59	0.59	1.46
31	0.93	0.00	0.00	0.93	0.00	0.66	0.66	1.59
Sum	11.96	10.85	8.89	31.71	0.00	19.73	19.73	51.44

62% Triangle	<u>MGD</u>	<u>MGD</u>	<u>MGD</u>
38% Riverside	1.02	0.64	1.66

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Triangle Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080			
Reporting period:	October, 2018	Notes: See notes below for specific operating conditions.	
Signature:	11/5/2018	Date	GAUD mg/L
		Location	HETL mg/L
		Triangle Station	

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	1.32	38	0.67	0.53
2	1.13	33	0.73	0.53
3	1.05	38	0.74	0.66
4	1.11	37	0.76	0.61
5	1.08	33	0.76	0.56
6	1.01	34	0.77	0.61
7	0.90	33	0.78	0.66
8	1.06	36	0.78	0.61
9	1.15	40	0.74	0.63
10	1.26	49	0.68	0.69
11	0.82	25	0.69	0.55
12	1.16	38	0.70	0.59
13	0.89	32	0.71	0.65
14	0.97	33	0.71	0.62
15	1.02	35	0.70	0.62
16	0.92	31	0.71	0.61
17	1.23	41	0.71	0.61
18	1.12	36	0.71	0.59
19	1.07	34	0.71	0.58
20	0.96	32	0.71	0.61
21	0.81	29	0.72	0.65
22	1.10	34	0.72	0.56
23	0.96	31	0.73	0.59
24	0.93	31	0.71	0.61
25	1.31	40	0.72	0.56
26	1.07	30	0.72	0.51
27	0.76	26	0.73	0.62
28	0.78	26	0.72	0.61
29	0.95	31	0.73	0.59
30	0.87	26	0.73	0.54
31	0.93	30	0.73	0.59
Avg	1.02	33.93	0.72	0.60
Min	0.76	25.22	0.67	0.51
Max	1.32	48.52	0.78	0.69
Total	31.71	1,051.70		

Operating comments

Monthly Fluoride Report		System Information			
System Type - Fluoride Systems		Treatment plant: <u>Riverside Station</u>			
System Name:	Greater Augusta Utility District	Chemical Used: <u>Sodium Fluoride</u>			
PWSID#: 90080					
Reporting period: <u>October, 2018</u>		Notes: See notes below for specific operating conditions.			
Signature: 		Date	GAUD mg/L	Location	HETL mg/L
11/5/2018		11/1/2018 7:55	0.86	Riverside Wellhouse	0.8

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.57	19	0.84	0.60
2	0.66	23	0.84	0.62
3	0.69	23	0.84	0.60
4	0.64	22	0.83	0.62
5	0.69	24	0.83	0.63
6	0.65	22	0.83	0.61
7	0.64	21	0.77	0.59
8	0.68	24	0.75	0.63
9	0.62	21	0.67	0.61
10	0.58	19	0.58	0.59
11	0.84	29	0.60	0.62
12	0.59	18	0.67	0.55
13	0.62	22	0.88	0.64
14	0.59	22	0.94	0.67
15	0.64	23	0.82	0.65
16	0.67	24	0.73	0.65
17	0.68	25	0.74	0.66
18	0.59	22	0.72	0.67
19	0.68	25	0.68	0.66
20	0.62	23	0.63	0.67
21	0.59	8	0.45	0.24
22	0.58	0	0.13	0.00
23	0.48	0	0.12	0.00
24	0.82	0	0.12	0.00
25	0.64	0	0.12	0.00
26	0.59	0	0.12	0.00
27	0.63	0	0.12	0.00
28	0.55	0	0.12	0.00
29	0.64	0	0.12	0.00
30	0.59	0	0.12	0.00
31	0.66	21	0.48	0.57
Avg	0.64	15.48	0.56	0.43
Min	0.48	0.00	0.12	0.00
Max	0.84	29.00	0.94	0.67
Total	19.73	480.00		

Operating comments

Fluoridation system taken out of service for maintenance.

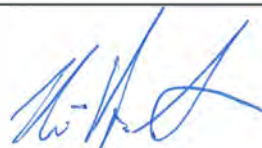
Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: October, 2018

Reporting date: 11/5/2018



Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
1	85,961	1.17	0.7	
2	89,977	1.11	0.8	
3	172,188	1.08	1.4	
4	91,313	0.93	0.8	
5	183,289	0.95	1.6	
6	80,219	1.02	0.7	
7	81,945	0.98	0.8	
8	85,969	1.13	0.8	
9	139,703	1.16	1.2	
10	118,313	0.99	1.1	
11	82,625	1.24	0.8	
12	84,359	1.28	0.8	
13	81,281	1.29	0.7	
14	76,336	1.27	0.7	
15	92,648	1.26	0.8	
16	90,906	1.35	0.8	
17	100,406	1.43	0.8	
18	146,922	1.25	1.4	
19	82,484	1.50	0.7	
20	0	1.53	-	no consumption
21	72,727	1.25	0.7	
22	81,289	1.33	0.7	
23	84,758	1.26	0.7	
24	83,820	1.25	0.8	
25	86,766	1.31	0.8	
26	81,953	1.36	0.7	
27	33,422	1.69	0.3	
28	37,703	1.22	0.3	
29	83,953	1.44	0.8	
30	81,422	1.26	0.7	
31	86,227	1.23	0.8	
Sum	2,780,883		24.7	
Average	89,706	1.2	0.8	
Max		1.7		

Brian Tarbuck, General Manager
btarbuck@greateraugustautilitydistrict.org

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kknight@greateraugustautilitydistrict.org

Charlotte Warren, Hallowell voting member
cwarren@greateraugustautilitydistrict.org

Bob Corey, Treasurer
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December 10, 2018

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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, 2018.

You should find the following documents:

1. Operating report;
2. Water production report;
3. Triangle Calciquest tank level chart;
4. Triangle fluoridation report
5. Riverside fluoridation report; and
6. Togus disinfection report.

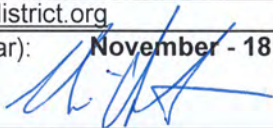
Note that we have two fluoride samples for both the east and west sides of the river. I don't know how you want to record this so I've given you both sets of results.

You'll also find an attachment for the Calciquest (polyorthophosphate tank) at Triangle Station that illustrates the sinusoidal pattern observed in these readings. Our routine grab samples and overall chart curve both suggest that there is a problem with the level sensor. Our instrumentation technician and maintenance crew are troubleshooting it now.

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

Sincerely,

Brian Tarbuck, PE, System Class IV 2026

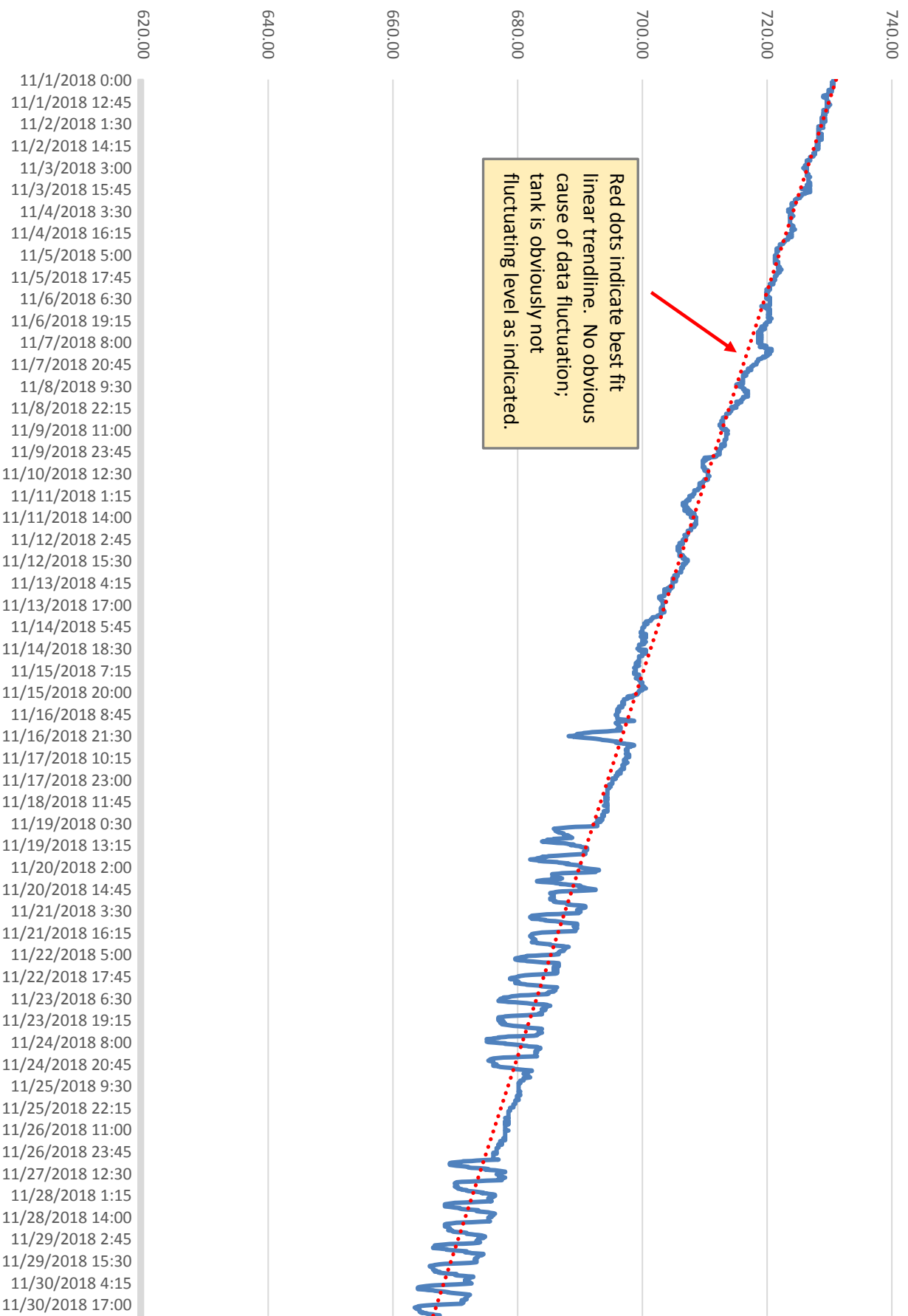
Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026	Note Triangle Calcquest levels started to show odd trending. The issue is under review. Tests of orthophosphate at the station and in the field show that dosing is acceptable.	
btarbuck@greteraugustautilitydistrict.org			
Reporting period (month and year): November - 18			
Date: December 10, 2018			
Signature: 			

	Water production, pH and free chlorine residual						Chemical usage					
	Triangle Station			Riverside Station			Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons	pH	Average free chlorine residual	Calc	Hypo	NaF	Calc	Hypo	NaF
				(MGD)			gal	gal	lbs	gal	gal	lbs
1	0.93	7.51	1.31	0.58	7.68	1.08	2	13		1.4	7	
2	1.05	7.51	1.38	0.70	7.69	1.15	3	15		1.7	9	
3	0.85	7.49	1.46	0.52	7.69	1.40	2	12		1.2	7	
4	0.84	7.47	1.48	0.61	7.70	2.22	2	13		1.5	8	
5	1.01	7.46	1.47	0.60	7.70	1.07	2	13	50	1.4	8	
6	0.93	7.48	1.49	0.58	7.70	1.21	2	14		1.4	7	
7	1.01	7.46	1.51	0.61	7.70	1.20	4	14		1.5	8	
8	1.07	7.43	1.52	0.68	7.70	1.19	3	15		1.6	9	
9	0.90	7.43	1.51	0.58	7.70	1.19	2	12	50	1.3	7	50
10	0.84	7.42	1.51	0.58	7.70	1.19	4	12		1.4	7	
11	0.91	7.40	1.51	0.56	7.70	1.19	2	12		1.4	7	
12	1.01	7.39	1.53	0.58	7.70	1.19	2	14		1.4	8	
13	1.00	7.38	1.51	0.66	7.70	1.19	3	13		1.5	8	
14	1.11	7.36	1.47	0.70	7.69	1.19	3	14		1.7	9	
15	0.86	7.36	1.39	0.60	7.69	1.10	3	11		1.4	7	
16	0.93	7.36	1.44	0.62	7.68	0.88	flag	11		1.5	7	50
17	0.90	7.34	1.46	0.60	7.69	1.16	flag	11	50	1.4	7	
18	0.86	7.33	1.46	0.57	7.68	1.17	2	12		1.4	7	
19	0.99	7.35	1.43	0.65	7.68	1.18	flag	14		1.5	8	50
20	0.91	7.34	1.41	0.61	7.68	1.18	flag	12		1.5	7	50
21	1.05	7.32	1.45	0.60	7.68	1.24	flag	13	100	1.4	7	
22	0.60	7.33	1.45	0.61	7.67	1.32	flag	8		1.5	7	
23	1.09	7.33	1.51	0.59	7.67	1.33	flag	14		1.4	7	
24	1.01	7.32	1.46	0.56	7.67	1.33	flag	14		1.3	7	
25	0.81	7.29	1.48	0.62	7.66	1.33	3	11		1.5	8	
26	1.02	7.29	1.48	0.65	7.66	1.34	2	13		1.5	8	
27	0.81	7.25	1.45	0.58	7.66	1.35	flag	11		1.4	7	
28	0.95	7.25	1.44	0.64	7.65	1.35	flag	13		1.5	8	
29	1.04	7.24	1.44	0.66	7.65	1.34	flag	14		1.6	8	
30	1.04	7.23	13.8	0.62	7.65	1.35	flag	14	50	1.5	8	
Summary	28.31	7.37	1.31	18.31	7.68	0.88	48	381	300	44	225	200
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used (fluoride reported separately)				
	Chemical Name	Purpose	Chemical Strength	Total Units
Calc	Calcquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	92 gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	607 gallons
NaF	Sodium fluoride	fluoridation		500 pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
Number of routine samples taken:	28	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.90

Triangle Station Calcicquest tank level, November, 2018



Monthly Well Production Report		System Information	
System Type - All GW systems		Treatment plant/pump station: All wells	
System Name:	Greater Augusta Utility District	Community System	
PWSID#:	90080	List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME	Brian Tarbuck		
License #:	2026		
btarbuck@greteraugustautilitydistrict.org			
Reporting period:	November, 2018		
Date:	December 10, 2018		
Signature:			

Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.93	0.00	0.00	0.93	0.00	0.58	0.58	1.51
2	0.71	0.00	0.34	1.05	0.00	0.70	0.70	1.76
3	0.56	0.00	0.29	0.85	0.00	0.52	0.52	1.37
4	0.58	0.00	0.26	0.84	0.00	0.61	0.61	1.45
5	0.45	0.22	0.34	1.01	0.00	0.60	0.60	1.61
6	0.11	0.34	0.47	0.93	0.00	0.58	0.58	1.51
7	0.11	0.36	0.54	1.01	0.00	0.61	0.61	1.62
8	0.12	0.38	0.56	1.07	0.00	0.68	0.68	1.75
9	0.00	0.35	0.55	0.90	0.00	0.58	0.58	1.47
10	0.00	0.33	0.51	0.84	0.00	0.58	0.58	1.42
11	0.00	0.34	0.56	0.91	0.00	0.56	0.56	1.47
12	0.00	0.40	0.61	1.01	0.00	0.58	0.58	1.59
13	0.00	0.40	0.60	1.00	0.00	0.66	0.66	1.65
14	0.00	0.51	0.60	1.11	0.00	0.70	0.70	1.81
15	0.23	0.30	0.33	0.86	0.00	0.60	0.60	1.46
16	0.03	0.35	0.55	0.93	0.00	0.62	0.62	1.55
17	0.00	0.38	0.53	0.90	0.00	0.60	0.60	1.51
18	0.00	0.33	0.53	0.86	0.00	0.57	0.57	1.43
19	0.00	0.42	0.57	0.99	0.00	0.65	0.65	1.64
20	0.00	0.35	0.55	0.91	0.00	0.61	0.61	1.51
21	0.00	0.48	0.57	1.05	0.00	0.60	0.60	1.65
22	0.00	0.10	0.50	0.60	0.00	0.61	0.61	1.21
23	0.00	0.17	0.92	1.09	0.00	0.59	0.59	1.67
24	0.00	0.37	0.64	1.01	0.00	0.56	0.56	1.56
25	0.00	0.31	0.50	0.81	0.00	0.62	0.62	1.43
26	0.32	0.54	0.16	1.02	0.00	0.65	0.65	1.67
27	0.27	0.55	0.00	0.81	0.00	0.58	0.58	1.39
28	0.30	0.65	0.00	0.95	0.00	0.64	0.64	1.59
29	0.35	0.68	0.00	1.04	0.00	0.66	0.66	1.70
30	0.36	0.68	0.00	1.04	0.00	0.62	0.62	1.66
Sum	5.42	10.31	12.58	28.31	0.00	18.31	18.31	46.62

61% Triangle

MGD

MGD

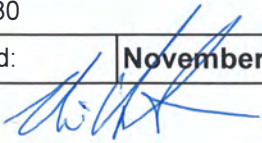
MGD

39% Riverside

0.94

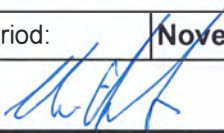
0.61

1.55

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Triangle Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080		Notes: See notes below for specific operating conditions.	
Reporting period:	November, 2018	Date	GAUD mg/L
Signature:  12/10/2018		11/1/2018 8:40	0.65
		11/8/2018 8:00	0.76
		Location	HETL mg/L
		Triangle Station	0.7
		Triangle Station	0.7

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.93	31	0.73	0.61
2	1.05	36	0.74	0.62
3	0.85	29	0.73	0.62
4	0.84	28	0.74	0.61
5	1.01	30	0.73	0.54
6	0.93	29	0.74	0.57
7	1.01	34	0.75	0.61
8	1.07	34	0.75	0.58
9	0.90	29	0.75	0.59
10	0.84	27	0.75	0.59
11	0.91	29	0.75	0.58
12	1.01	32	0.75	0.58
13	1.00	31	0.73	0.57
14	1.11	34	0.72	0.56
15	0.86	27	0.70	0.57
16	0.93	30	0.71	0.59
17	0.90	29	0.77	0.58
18	0.86	28	0.78	0.59
19	0.99	31	0.72	0.57
20	0.91	30	0.75	0.60
21	1.05	31	0.73	0.54
22	0.60	19	0.69	0.58
23	1.09	34	0.68	0.57
24	1.01	33	0.67	0.60
25	0.81	27	0.70	0.61
26	1.02	32	0.70	0.57
27	0.81	28	0.66	0.63
28	0.95	32	0.65	0.61
29	1.04	34	0.65	0.60
30	1.04	32	0.66	0.56
Avg	0.94	30.67	0.71	0.59
Min	0.60	19.23	0.65	0.54
Max	1.11	36.37	0.78	0.63
Total	28.31	920.02		

Operating comments

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: <u>Riverside Station</u>	
System Name:	Greater Augusta Utility District	Chemical Used: <u>Sodium Fluoride</u>	
PWSID#: 90080		Notes: See notes below for specific operating conditions.	
Reporting period:	November, 2018	Date	GAUD mg/L
Signature:  12/10/2018		11/1/2018 7:55	0.86
		11/8/2018 8:00	0.67
		Location	HETL mg/L
		Riverside Station	0.8
		Riverside Station	0.6

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.58	21	0.82	0.65
2	0.70	25	0.74	0.64
3	0.52	19	0.73	0.65
4	0.61	23	0.73	0.67
5	0.60	22	0.73	0.66
6	0.58	20	0.72	0.62
7	0.61	23	0.68	0.68
8	0.68	24	0.63	0.64
9	0.58	18	0.62	0.56
10	0.58	22	0.74	0.68
11	0.56	20	0.78	0.64
12	0.58	21	0.77	0.65
13	0.66	24	0.75	0.66
14	0.70	25	0.75	0.65
15	0.60	21	0.74	0.63
16	0.62	21	0.67	0.61
17	0.60	23	0.72	0.69
18	0.57	22	0.73	0.70
19	0.65	22	0.72	0.61
20	0.61	21	0.75	0.62
21	0.60	22	0.75	0.66
22	0.61	23	0.76	0.68
23	0.59	23	0.76	0.70
24	0.56	21	0.75	0.68
25	0.62	24	0.75	0.70
26	0.65	24	0.74	0.67
27	0.58	22	0.73	0.69
28	0.64	25	0.73	0.70
29	0.66	25	0.73	0.68
30	0.62	24	0.73	0.70
Avg	0.61	22.33	0.73	0.66
Min	0.52	18.00	0.62	0.56
Max	0.70	25.00	0.82	0.70
Total	18.31	670.00		

Operating comments

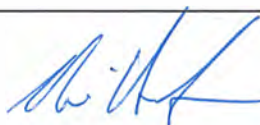
Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: November, 2018

Reporting date: 12/10/2018



Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
1	88,906	1.16	0.7	
2	83,016	1.26	0.7	
3	73,266	1.41	0.5	
4	0	1.39	-	no consumption
5	84,625	1.35	0.6	
6	84,492	1.35	0.7	
7	90,906	1.38	0.7	
8	87,031	1.40	0.6	
9	82,227	1.33	0.6	
10	73,656	1.47	0.6	
11	43,055	1.34	0.2	
12	70,719	1.65	0.5	
13	77,805	1.41	0.6	
14	76,336	1.54	0.5	
15	80,086	1.58	0.5	
16	74,461	1.57	0.4	
17	0	1.75	-	no consumption
18	72,867	1.49	0.5	
19	81,414	1.41	0.5	
20	78,070	1.21	0.5	
21	73,000	1.24	0.5	
22	0	1.34	-	no consumption
23	81,281	1.36	0.5	
24	73,930	1.40	0.5	
25	0	1.45	-	no consumption
26	99,469	1.27	0.6	
27	111,492	1.43	0.8	
28	74,867	1.22	0.4	
29	77,680	1.39	0.5	
30	77,133	1.32	0.5	
Sum	2,071,789		14.2	
Average	69,060	1.4	0.5	
Max		1.7		

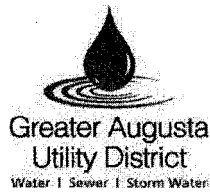
Brian Tarbuck, General Manager
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kknight@greateraugustautilitydistrict.org

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January 9, 2019

Denise Douin
State of Maine, Drinking Water Program
11 State House Station
Augusta, ME 04333-0011

Dear Denise:

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 December, 2018.

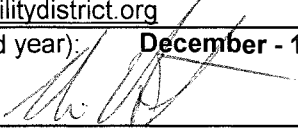
You should find the following documents:

1. Operating report;
2. Water production report;
3. Triangle fluoridation report
4. Riverside fluoridation report; and
5. Togus disinfection report.

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

Sincerely,

Brian Tarbuck, PE, System Class IV 2026

Monthly Operating Report		System Information	
System Type - All GW systems		Treatment plant/pump station: Triangle & Riverside	
System Name:	Greater Augusta Utility District	Community water system	
PWSID#:	90080	List any new or changed system information and any operational problems or comments below.	
Designated operator name and ME License #:	Brian Tarbuck 2026		
btarbuck@greataugustautilitydistrict.org			
Reporting period (month and year): December - 18			
Date: January 9, 2019			
Signature: 			

Water production, pH and free chlorine residual							Chemical usage					
Triangle Station			Riverside Station				Triangle Station			Riverside Station		
Date	Gallons (MGD)	pH	Average free chlorine residual	Gallons (MGD)	pH		Calc	Hypo	NaF	Calc	Hypo	NaF
							gal	gal	lbs	gal	gal	lbs
1	0.90	7.23	1.27	0.59	7.65	1.35	0	11		1	7	
2	0.75	7.20	1.29	0.52	7.65	1.33	2	9		1	6	
3	1.02	7.20	1.32	0.69	7.65	1.35	3	13		2	8	
4	0.95	7.24	1.35	0.58	7.65	1.34	2	12		1	7	
5	0.95	7.27	1.41	0.65	7.65	1.34	2	13		1	8	50
6	0.97	7.19	1.39	0.60	7.65	1.29	2	13		1	8	
7	0.96	7.25	1.39	0.65	7.65	1.27	2	13	100	1	8	
8	0.91	7.24	1.39	0.57	7.65	1.23	2	11		1	7	
9	0.83	7.21	1.41	0.54	7.65	1.22	2	11		1	7	
10	1.06	7.35	1.43	0.64	7.65	1.23	3	14		1	8	
11	1.04	7.45	1.42	0.59	7.65	1.23	1	13		1	7	
12	0.94	7.44	1.40	0.65	7.64	1.23	2	13		1	8	
13	1.01	7.42	1.41	0.59	7.64	1.23	2	13		1	7	
14	1.00	7.41	1.40	0.64	7.64	1.23	2	3		2	8	50
15	0.97	7.39	1.39	0.58	7.63	1.23	2	11		1	7	
16	0.89	7.37	1.40	0.68	7.63	1.24	4	11		2	8	
17	0.88	7.37	1.38	0.54	7.63	1.24	2	11		1	7	
18	1.07	7.35	1.40	0.64	7.62	1.25	0	14		2	8	
19	1.00	7.34	1.41	0.66	7.62	1.25	2	13		1	8	
20	1.04	7.32	1.44	0.57	7.62	1.24	2	14	50	1	7	50
21	0.91	7.32	1.40	0.65	7.62	1.25	2	12		1	8	
22	0.76	7.32	1.41	0.57	7.62	1.23	1	9		1	7	
23	0.84	7.29	1.44	0.57	7.63	1.21	3	11		1	7	
24	0.81	7.27	1.42	0.55	7.63	1.21	2	10		1	7	
25	0.79	7.23	1.38	0.60	7.63	1.21	0	11		1	7	
26	1.09	7.23	1.30	0.56	7.63	1.22	2	14	100	1	7	
27	0.96	7.23	1.18	0.63	7.63	1.23	2	13		1	8	
28	0.87	7.22	1.18	0.58	7.23	1.16	2	11		1	7	
29	0.83	7.20	1.19	0.80	7.63	1.21	1	11		2	9	
30	0.71	7.18	1.19	0.53	7.64	1.19	4	9		1	6	
31	1.04	7.19	1.17	0.60	7.64	1.19	2	12	100	1	7	50
Summary	28.75	7.29	1.17	18.81	7.62	1.16	63	359	350	45	230	200
	Sum	Average	(min.)	Sum	Average	(min.)	(total)	(total)	(total)	(total)	(total)	(total)

Chemicals Used (fluoride reported separately)				
	Chemical Name	Purpose	Chemical Strength	Total Units
Calc	Calciquest 75 / 25	calcium sequestration / Pb / Cu control	75% polyphosphate	107 gallons
Hypo	Sodium hypochlorite	primary and secondary disinfection	12.50%	589 gallons
NaF	Sodium fluoride	fluoridation		550 pounds

Summary of Total Coliform Bacteria Rule - please continue to submit complete results			
Number of routine samples taken:	28	Number of repeat samples taken:	0
Number of positive samples:	0	Average chlorine residual at sites:	0.95

Monthly Well Production Report		System Information	
System Type - All GW systems		Treatment plant/pump station: All wells	
System Name: Greater Augusta Utility District		Community System	
PWSID#: 90080		List any new or changed system information (facilities, treatments, sources, operators, address, tele, etc.):	
Designated operator name and ME: Brian Tarbuck			
License #: 2026			
btarbuck@greteraugustautilitydistrict.org			
Reporting period: December, 2018			
Date: January 9, 2019			
Signature: 			

Daily water production (MG)								
Date	Triangle Well	South Well	Brookside Well	Sum Triangle Station	Riverside South #1 HD-8	Riverside North #2 HD-7	Sum Riverside Station	Sum All wells
1	0.32	0.59	0.00	0.90	0.00	0.59	0.59	1.49
2	0.18	0.57	0.00	0.75	0.00	0.52	0.52	1.27
3	0.35	0.67	0.00	1.02	0.00	0.69	0.69	1.71
4	0.45	0.16	0.34	0.95	0.00	0.58	0.58	1.53
5	0.59	0.00	0.36	0.95	0.00	0.65	0.65	1.60
6	0.63	0.00	0.34	0.97	0.00	0.60	0.60	1.57
7	0.77	0.00	0.19	0.96	0.00	0.65	0.65	1.61
8	0.59	0.00	0.32	0.91	0.00	0.57	0.57	1.47
9	0.55	0.00	0.28	0.83	0.00	0.54	0.54	1.37
10	0.23	0.37	0.46	1.06	0.00	0.64	0.64	1.70
11	0.00	0.46	0.58	1.04	0.00	0.59	0.59	1.63
12	0.00	0.38	0.56	0.94	0.00	0.65	0.65	1.59
13	0.00	0.44	0.57	1.01	0.00	0.59	0.59	1.60
14	0.00	0.43	0.57	1.00	0.00	0.64	0.64	1.64
15	0.00	0.44	0.52	0.97	0.00	0.58	0.58	1.55
16	0.00	0.39	0.51	0.89	0.00	0.68	0.68	1.58
17	0.00	0.36	0.52	0.88	0.00	0.54	0.54	1.42
18	0.00	0.48	0.59	1.07	0.00	0.64	0.64	1.71
19	0.00	0.44	0.56	1.00	0.00	0.66	0.66	1.65
20	0.00	0.49	0.55	1.04	0.00	0.57	0.57	1.61
21	0.00	0.37	0.54	0.91	0.00	0.65	0.65	1.55
22	0.00	0.27	0.49	0.76	0.00	0.57	0.57	1.33
23	0.00	0.29	0.55	0.84	0.00	0.57	0.57	1.41
24	0.00	0.54	0.26	0.81	0.00	0.55	0.55	1.36
25	0.12	0.67	0.00	0.79	0.00	0.60	0.60	1.39
26	0.29	0.80	0.00	1.09	0.00	0.56	0.56	1.65
27	0.35	0.62	0.00	0.96	0.00	0.63	0.63	1.59
28	0.28	0.60	0.00	0.87	0.00	0.58	0.58	1.45
29	0.24	0.59	0.00	0.83	0.00	0.80	0.80	1.63
30	0.11	0.59	0.00	0.71	0.00	0.53	0.53	1.24
31	0.34	0.70	0.00	1.04	0.00	0.60	0.60	1.64
Sum	6.39	12.70	9.66	28.75	0.00	18.81	18.81	47.56

60% Triangle	MGD	MGD	MGD
40% Riverside	0.93	0.61	1.53

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Triangle Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080			
Reporting period:	December, 2018	Notes: See notes below for specific operating conditions.	
Signature:	1/9/2019	Date	Location
		12/11/2018 10:25	Triangle Wellhouse
			HETL mg/L
			0.7

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.90	31	0.67	0.62
2	0.75	25	0.69	0.61
3	1.02	32	0.67	0.57
4	0.95	32	0.64	0.61
5	0.95	32	0.64	0.61
6	0.97	32	0.65	0.60
7	0.96	30	0.69	0.57
8	0.91	30	0.68	0.60
9	0.83	27	0.72	0.59
10	1.06	34	0.68	0.58
11	1.04	33	0.68	0.58
12	0.94	31	0.69	0.60
13	1.01	33	0.70	0.59
14	1.00	33	0.69	0.60
15	0.97	31	0.71	0.58
16	0.89	29	0.70	0.59
17	0.88	28	0.65	0.58
18	1.07	34	0.64	0.58
19	1.00	33	0.64	0.60
20	1.04	31	0.63	0.54
21	0.91	31	0.66	0.62
22	0.76	25	0.69	0.60
23	0.84	27	0.67	0.58
24	0.81	25	0.64	0.57
25	0.79	26	0.64	0.60
26	1.09	32	0.66	0.53
27	0.96	32	0.70	0.60
28	0.87	29	0.72	0.60
29	0.83	28	0.75	0.61
30	0.71	23	0.70	0.59
31	1.04	30	0.66	0.53
Avg	0.93	30.30	0.68	0.59
Min	0.71	23.23	0.63	0.53
Max	1.09	34.38	0.75	0.62
Total	28.75	939.15		

Operating comments

Monthly Fluoride Report		System Information	
System Type - Fluoride Systems		Treatment plant: Riverside Station	
System Name:	Greater Augusta Utility District	Chemical Used: Sodium Fluoride	
PWSID#: 90080			
Reporting period:	December, 2018	Notes: See notes below for specific operating conditions.	
Signature:	1/9/2019	Date 12/11/2018 8:40	Location Riverside Station
		HETL mg/L 0.7	

Fluoride				
Date	Mgals pumped	Gallons of makeup water	Daily Residual	Theoretical Calculation
units:	Mgals	gallons	mg/L	mg/L
1	0.59	23	0.74	0.70
2	0.52	20	0.74	0.69
3	0.69	26	0.73	0.68
4	0.58	22	0.73	0.68
5	0.65	23	0.73	0.64
6	0.60	23	0.77	0.69
7	0.65	25	0.77	0.69
8	0.57	21	0.75	0.67
9	0.54	21	0.75	0.70
10	0.64	24	0.74	0.67
11	0.59	23	0.75	0.70
12	0.65	24	0.75	0.67
13	0.59	23	0.73	0.70
14	0.64	21	0.72	0.59
15	0.58	22	0.75	0.68
16	0.68	26	0.76	0.68
17	0.54	20	0.75	0.66
18	0.64	25	0.74	0.70
19	0.66	24	0.75	0.66
20	0.57	20	0.75	0.63
21	0.65	24	0.78	0.67
22	0.57	22	0.79	0.69
23	0.57	22	0.79	0.69
24	0.55	21	0.78	0.69
25	0.60	22	0.77	0.66
26	0.56	22	0.74	0.70
27	0.63	24	0.72	0.69
28	0.58	21	0.66	0.65
29	0.80	30	0.65	0.68
30	0.53	21	0.59	0.71
31	0.60	20	0.65	0.60
Avg	0.61	22.74	0.74	0.68
Min	0.52	20.00	0.59	0.59
Max	0.80	30.00	0.79	0.71
Total	18.81	705.00		

Operating comments

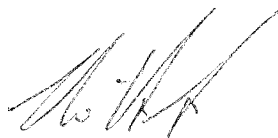
Greater Augusta Utility District, PWSID 90080

Operator: Brian Tarbuck, 2026

Togus Disinfection Station, Route 17 Augusta, Maine

Reporting month: December, 2018

Reporting date: 1/9/2019



Date	Flow (gallons)	Average Togus chlorine residual (mg/L)	Sodium hypochlorite usage (gallons)	Operating notes
1	0	1.58	-	no consumption
2	71,250	1.43	0.5	
3	82,891	1.30	0.6	
4	82,617	1.34	0.5	
5	80,883	1.40	0.5	
6	79,680	1.40	0.5	
7	82,492	1.46	0.6	
8	70,586	1.54	0.4	
9	0	1.34	-	no consumption
10	85,156	1.45	0.6	
11	83,961	1.35	0.5	
12	83,156	1.39	0.5	
13	83,422	1.41	0.6	
14	85,297	1.44	0.5	
15	74,461	1.33	0.5	
16	73,797	1.35	0.5	
17	81,953	1.40	0.5	
18	85,430	1.45	0.6	
19	83,555	1.43	0.5	
20	82,617	1.45	0.6	
21	81,289	1.44	0.5	
22	0	1.50	-	no consumption
23	72,320	1.42	0.5	
24	72,328	1.53	0.4	
25	0	1.59	-	no consumption
26	84,625	1.50	0.6	
27	84,094	1.44	0.6	
28	88,367	1.40	0.5	
29	75,672	1.44	0.4	
30	75,133	1.51	0.5	
Sum	2,087,031		13.5	
Average	69,568	1.4	0.4	
Max		1.6		