

September 7, 2023

President and Commissioners  
Town of Charlestown  
241 Market Street  
Charlestown, MD 21914

**Re: Charlestown Water Treatment Plant  
August 2023 Monthly Operations Report  
PWSID #0070029**

Dear President and Commissioners;

This report is to advise you of the activities performed last month at the Water Treatment Plant and Distribution System.

<b>Water Withdrawal Summary</b>	<b>2023</b>	<b>2022</b>
Total Monthly Water Withdrawal	3,442,000 gallons	2,862,000 gallons
Average Daily Water Withdrawal	114,733 gallons	95,400 gallons
Minimum Daily Water Withdrawal	81,000 gallons	50,000 gallons
Maximum Daily Water Withdrawal	235,000 gallons	155,000 gallons
Total Positive Coliform Samples	0	

If you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,



Deb Balsavage,  
Compliance Coordinator

# **Charlestown Water Treatment Plant Maintenance & Operations Activities**

## **Routine Operation and Maintenance:**

- Daily tasks were recorded in the WTF logbook and all data sheets for chemical usage, equipment runtime, pH calibration, and routine checklists were completed.
- Daily pH and chlorine tests were performed.
- Chemical feed pumps were adjusted as necessary to maintain optimal pH and chlorine levels.
- Chemicals were mixed as needed and a chemical inventory was maintained.
- Monthly samples were collected and sent to certified lab for testing per state requirements.
- Monthly Operations Report was sent to MDE.
- The WTF Maintenance Schedule was followed.
- Housekeeping was performed.

## **Non-Routine Operation and Maintenance:**

- A 10-inch water main break caused unusually high flows on 9/20 and 9/21.
- Completed 26 locates.

October 10, 2023

Mr. Alex Yeboah  
Maryland Department of the Environment  
Water Supply Program  
1800 Washington Boulevard  
Baltimore, MD 21230

**Re: Charlestown Water Plant  
September 2023 Monthly Operations Report  
PWSID # 0070029**

Dear Mr. Yeboah;

Attached for your review is the Monthly Operations Report for the Charlestown Water Plant.

If you have any questions or require additional information, please do not hesitate to contact me at (484)507-4401.

Sincerely,

*Deb Balsavage*

Deb Balsavage,  
Compliance Coordinator

cc: Mike Poyner, CEO, Miller Environmental, Inc.  
Dean Miller, President, Miller Environmental, Inc.

**MDE**  
 WATER MANAGEMENT DIVISION  
 1800 Washington Boulevard  
 BALTIMORE MD. 21230

FACILITY: **Town of Charlestown**  
 ADDRESS: P.O. Box 154  
 Charlestown, MD. 21914  
 ID#: 007-0029

OPERATOR: Dean Miller  
 CERT. #: 3388

County: Cecil  
 Month: **September**  
 Year: **2023**

GENERAL		WELLS						CHEMICALS			DISTRIBUTION						
DATE	WEATHER	WELL#1 HRS.	WELL#2 HRS.	FLOW Mgd	pH	Temp.°C	Fe ppm	Chlorine	Soda Ash	Aqua Mag	pH	Cl2 ppm	Alk. Ppm	Hrd. Ppm	Fe ppm	Flow Mgd	PSI
1	CLEAR	16.6	0.0	0.111	5.30			6.0	175	5.0	7.00	1.10				0.086	66.3
2	CLOUDY	22.7	0.0	0.148	5.30			12.0	225	4.0	6.80	0.80				0.156	
3	CLEAR	19.8	0.0	0.126	5.20			9.0	200	3.0	6.80	0.80				0.155	
4	CLEAR	223.1	0.0	0.149	5.30			12.0	200	2.0	7.00	0.80				0.148	66.4
5	CLEAR	16.7	0.0	0.119	5.30			10.0	175	1.0	7.00	1.00				0.115	66.4
6	CLEAR	13.3	0.0	0.121	52.00			8.0	200	2.0	6.90	1.10				0.104	66.3
7	CLEAR	8.7	18.3	0.139	53.00			11.0	200	1.0	7.10	1.00				0.115	66.3
8	CLEAR	0.0	23.8	0.083	5.10			10.0	200	1.0	7.00	1.20				0.104	67.2
9	CLOUDY	0.0	23.5	0.101	5.20			12.0	200	0.0	7.00	1.10				0.101	65.4
10	RAIN	0.0	26.8	0.112	5.20			12.5	230	1.0	7.10	1.00				0.124	66.7
11	CLEAR	0.0	21.1	0.081	5.30			10.0	200	1.0	7.10	1.80				0.130	
12	CLEAR	0.0	24.7	0.107	5.20			8.0	200	1.0	7.00	1.60				0.095	66.5
13	CLOUDY	0.0	23.9	0.086	5.30			8.0	175	2.0	7.00	1.30				0.081	66.3
14	CLEAR	0.0	24.5	0.086	5.10			10.0	175	1.0	6.90	1.40				0.108	66.7
15	CLEAR	0.0	25.4	0.111	5.10			8.5	250	5.0	7.10	1.40				0.117	66.3
16	CLEAR	0.0	23.8	0.102	5.50			9.5	200	3.0	7.10	1.20				0.107	
17	CLEAR	0.0	22.8	0.103	5.30			8.5	175	2.5	7.10	1.50				0.102	
18	RAIN	0.0	24.8	0.125	5.30			9.0	200	1.0	7.10	0.90				0.102	66.4
19	CLOUDY	0.0	22.7	0.081	5.20			8.0	200	2.0	7.00	1.20				0.091	66.4
20	CLEAR	26.2	20.2	0.227	5.20			12.0	200	2.0	7.10	1.10				0.350	66.3
21	CLEAR	21.3	18.0	0.235	5.10			8.0	200	2.0	7.00	0.90				0.122	62.5
22	CLOUDY	19.7	0.0	0.136	5.20			6.0	200	2.0	7.00	1.20				0.084	65.5
23	RAIN	17.1	0.0	0.113	5.30			17.0	200	1.0	7.10	1.10				0.121	66.9
24	RAIN	12.6	0.0	0.083	5.30			5.0	100	1.0	7.00	0.60				0.058	66.4
25	CLOUDY	14.2	0.0	0.094	5.50			9.0	200	2.0	6.70	0.60				0.123	
26	CLOUDY	14.8	0.0	0.095	5.30			6.0	150	1.0	6.90	1.00				0.097	66.4
27	CLOUDY	12.8	0.0	0.082	5.30			6.0	100	1.0	6.90	1.10				0.130	66.5
28	CLOUDY	15.8	0.0	0.102	5.20			7.0	100	1.0	6.90	0.90				0.099	
29	CLOUDY	13.7	0.0	0.091	5.20			6.0	100	3.0	7.00	1.00				0.098	66.3
30	CLOUDY	16.3	0.0	0.093	5.20			10.0	125	1.0	6.70	0.80				0.096	66.5
31																	
TOTAL		505.4	344.3	3.442				274	5455	55.5						3.519	
AVERAGE		16.8	11.5	0.115	8.40	#DIV/0!		9.1	182	1.9	6.98	1.08				0.117	
MIN		0.0	0.0	0.081	5.10	0.0					6.70	0.60				0.058	
MAX		223.1	26.8	0.235	53.00	0.0					7.10	1.80				0.350	