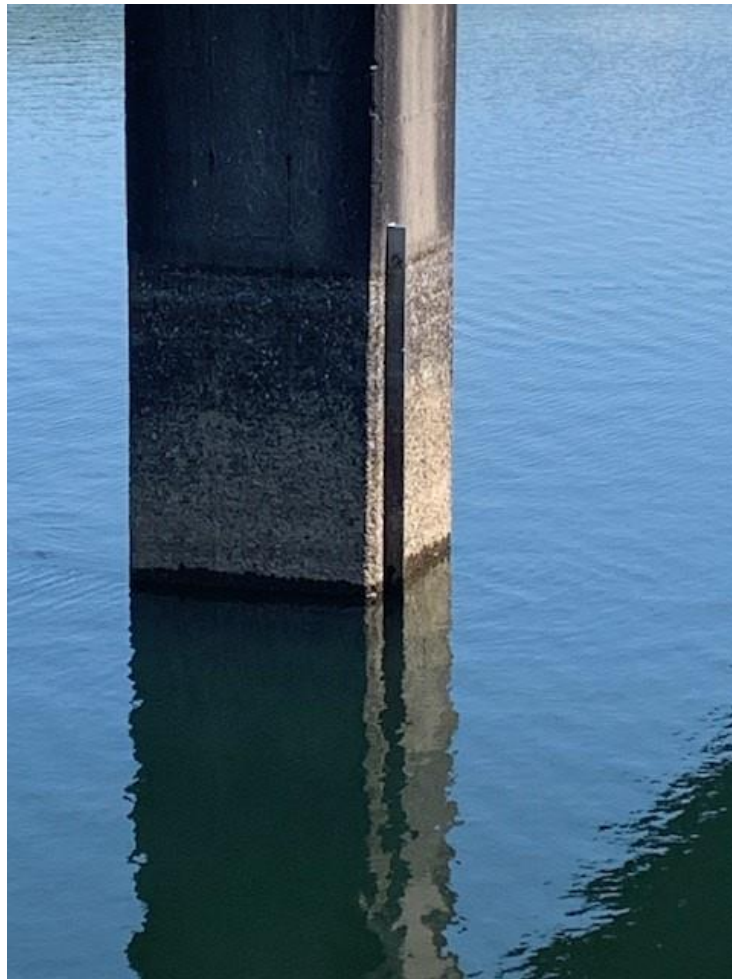


Ebensburg Municipal Authority

August monthly report for WTP



September 23, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the August 2024 monthly report detailing the operations and maintenance of the Ebensburg water treatment facility.

Thank you for the opportunity to provide Operations and Maintenance Services to the city of Ebensburg. To ensure we are providing material that is of value to you, please provide any questions or comments to me regarding this report.

Sincerely,
Luke Byrne

Executive Summary

During the month of August, the Ebensburg water treatment plant treated 37,710,000 gallons of reservoir water. This equates to an average of 1,216,452 gallons per day. The table found in plant operations of this packet showcases past month's historical average water production. Historical water production comparisons for August indicate an increase of 315,838 gallons per day.

An average of 269,537 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system. This is higher than normal due to the excessive water loss, contractors flushing for the water line project and Nanty Glo purchasing water.

The WTP experienced a loss of power three times during the month of August. The outages caused several VFD's to fault and required full plant restart and operations inspections each time. Staff was able to get the plant back online with no issues all three events.

On August 9th, a major rain event hit the area. The treatment facility was able to handle the increased water turbidity from the storm event with no issues.

On August 10th, Nanty Glo requested 300GPM due to their facilities inability to treat high turbidity water. Nanty Glo remained at 300 GPM until August 19th then reduced to 200GPM. On August 29th the interconnect was shut off.

On May 23-24th Pennsylvania DEP performed a filter plant performance evaluation. During the months of June and August Inframark staff continues to work with PA DEP to answer additional questions about the treatment facility to update state records.

Inframark staff worked with Public's work department to develop a flushing plan to address several dirty water complaints on Crestwood Drive.

The upper reservoir stream flow bypass valve was operated several times during the month to ensure a minimum of 270,000 gallons of water bypassed per day.

Water pumping stations were inspected regularly throughout the month. On August 20th, staff received a motor over voltage alarm at the Hillcrest tank site. Further investigation revealed a bad winding in the motor. A new 50 HP motor has been purchased to replace the old motor at Hillcrest. A plan has been put in place to install the new 550lb motor on September 26th. Inframark continues to boost/monitor the chlorine residual at the Ogden tank site. Both Ogden and Saltlick ran extensively during August to assist with supplying Nanty Glo with water. All pumpstation pumps/motors were greased for the month.

On the Radar

DAF Spare parts

WTP finished water pump inspections and rebuilds

Operations

Compliance:

- What is the monthly compliance reporting? We send about 10 pages of data that have been collected by our operators and SCADA system. These reports consist of over 20,000 points of data that are compiled into a report and sent to the state every month called the “Monthly Operating Report” (MOR). This report is a representation of how well the plant is operating during the prior month.
- August monthly compliance reporting was collected and submitted to PA DEP.
- Monthly we are required by state regulations to collect and analyze a minimum of nine bacteriological samples per a state approved sampling site plan. In August, we collected nine samples. Of the nine samples, zero were found to be total coliform positive.
- Monthly we are required to monitor chlorine levels in the distribution system. A minimum of one sample per week is required and the sample must be equal to or greater than 0.20mg/L free chlorine. Four samples were collected in August and all four samples were at or above the minimum.
- Inframark submitted a study/plan (12-20-22) to PA DEP detailing historical water loss and plans to address unaccounted for water. We are currently waiting for a response from PA DEP.
- Calibrated online and lab instrumentation to conform to PA DEP requirements.
- Collected and documented comparative grab samples to ensure accuracy of continuous chlorine analyzers.
- Collected and documented comparative grab samples to ensure accuracy of continuous turbidimeters and pH analyzers.
- Monitor water quality in clearwell for all compliance compounds and secondary contaminants.

Plant Operations

- Plant production has fluctuated through the month ranging from 1,075,000–1,345,000 gallons/day.
- Seasonal adjustments have been made to the filter wash cycles to increase media clean up after backwash. Air scour duration has been increased by 60 seconds and filter runtimes have been reduced to 72 hours.
- Conduct process control analysis daily.
- Backwash flow rates are monitored during backwash cycles.
- Filter media is observed daily for irregularities.
- Clarifiers are continuously monitored for sludge content and settling capability.
- Flows and chemical feed rates are adjusted daily to meet system demands.
- Chemical feed calculations and pump adjustments.

- Overnight flow monitoring.
- Pump station monitoring.
- Monitor clarifier flow setpoints.
- Online instrument flows are verified multiple times daily.
- Downstream flow is monitored daily and adjusted as needed.

Past month's historical average water production

Date	Average gallons filtered per day	Total gallons filtered per month	Days Supplying Nanty Glo
August 2023	1,008,484	31,263,000	16
September, 2023	940,233	28,207,000	5
October, 2023	856,484	26,551,000	0
November, 2023	923,933	27,718,000	0
December, 2023	1,081,935	33,540,000	0
January, 2024	1,153,581	35,761,000	0
February, 2024	1,151,690	33,399,000	0
March, 2024	1,148,065	35,590,000	0
April, 2024	1,130,200	33,906,000	6
May, 2024	1,138,258	35,286,000	0
June, 2024	1,214,367	36,431,000	0
July, 2024	1,176,161	36,461,000	0
August, 2024	1,216,452	37,710,000	20

Maintenance & Repair

Inframark staff completed 63 work orders in the month of August

- Fire extinguisher inspections
- Installed new salt bridge on finished water pH probe
- Changed bulb in DAF 1720E turbidimeter
- CL17 cleaning
- SCBA inspections
- Painting various areas of the WTP facility
- Ladder inspections
- Sump pumps exercised
- DAF lightning mixer oil level inspections
- Blower lubrication
- Lagoon vault cleaning/float adjustments
- Eye wash/safety shower inspections
- Grease clarifier drives
- Cleaned clarifier troughs
- Chlorine room alarm test

- Greased finished water pumps/motors
- Alternated finished water pumps
- Cleaned pH and turbidity meters weekly
- Jar testing to optimize chemical usage
- DAF sump level sensor verifications
- Monitored filter bed expansion
- Cleaned facility

Financial Update

Maintenance Expenditures

Vendor	Expense	Description
Ace Hardware	\$68.39	Dock repairs/spray paint/internet wiring
USA Blue Book	\$980.57	LMI pump parts/ASCO pressure solenoid
Long Barn	\$88.83	Generator room shelving

Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$25,000	\$10,304.39	\$1,137.79	\$9,166.60

Health & Safety

There were no accidents in the month of August. Personnel have worked 1,674 days (4 years, 8 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- Hillcrest LOTO SOP
- PFAS Sample collection SOP

Personnel

Name	Title	Operator Certifications
Kyle Smiley	Operator	PA Class A, E, Subclass 1,10,11,12
Tony Perott	Operator	PA Class C, E, Water Subclass 1,6,7,8,12
Shawn Jones	Operator in Training	Training for PA DEP exam
Luke Byrne	Project Manager	PA Class A, E, Water Subclass 1,7,8,10,11,12 PA Class A, E, Wastewater