

Ebensburg Municipal Authority

October monthly report for WTP



November 25th, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the October 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 October, the Ebensburg water treatment plant treated 37,542,000 gallons of reservoir water. This equates to an average of 1,211,032 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 October are not representative due to Nanty Glo purchasing water during the month.

An average of 293,447 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.

Fourth quarter disinfection by-product samples were collected at sample sites 700 Mini mall and 701 Airport. Both samples were found to be under the MCL for Haloacetic acids and Trihalomethanes. This is the 8th quarter in a row that the system has been under the MCL.

Fourth quarter PFAS monitoring was conducted on October 8th. Analysis yielded no detects. This concludes EMA's PFAS monitoring for 2024 with no detects. EMA's system is enrolled in UCMR5 monitoring and will begin January 2025.

On October 17th, Nanty Glo stopped purchasing water.

The upper reservoir level is currently down 10.5 feet. Inframark is monitoring the water levels of the upper reservoir closely. Inframark has been proactively investigating the functionality of lower intake valves at the upper reservoir as well.

Cummin's Generator Service performed annual inspection/service to the Hillcrest emergency generator. The generator was found to be in good operating condition.

Water pumping stations were inspected regularly throughout the month. Staff installed a new motor inside the lower level of the elevated tank. Inframark's crane truck along with a motor lift was used to insert and align the 400lb motor into place. Dodson Electric wired the new motor and assisted with the rotation. The new motor was tested and has been operating well since installed. Inframark continues to boost/monitor the chlorine residual at the Ogden tank site. Both Ogden and Saltlick ran extra during October to assist 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

Water leaks

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.
- October 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 October, 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. Five samples were collected in October and all five 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 974,000 – 1,315,000 gallons/day.
- 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
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
September, 2024	1,253,433	37,603,000	19
October, 2024	1,211,032	37,542,000	17

Maintenance & Repair

Inframark staff completed 69 work orders in the month of October

- Fire extinguisher inspections
- Ladder inspections
- Sump pumps exercised
- Caustic pump flushed out
- Finished water pump needle valve exercising
- Sodium permanganate pump cleaning and hose replacement
- DAF lightning mixer oil level inspections
- DAF Air saturation gauge
- 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	\$25.03	Pump station keys
LB water	\$269.25	Pipe flanges/brass fittings
Tractor supply	\$83.69	Hardware/pins/clips
Sealing Specialties	\$1,103.72	Finished water pump packing and seals
Wal-Mart	\$258.99	Batteries/lab binders/sampling supplies

Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$25,000	\$7,737.46	\$1,740.68	\$5,996.78

Health & Safety

There were no accidents in the month of October. Personnel have worked 1,735 days (4 years, 10 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- Upper reservoir intake operations
- DCP review

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