

# Ebensburg Municipal Authority

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## May monthly report for WTP



June 24th, 2024

Ebensburg Borough  
300 West High Street  
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the May 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

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## Executive Summary

During the month of May, the Ebensburg water treatment plant treated 35,286,000 gallons of reservoir water. This equates to an average of 1,138,258 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 May indicate an increase of 236,097 gallons per day.

An average of 88,829 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 and contractors flushing for the water line project.

During May staff noticed several instances where the DAF settled turbidity meter was reading erratically. This unit is an old 1720E model that is no longer supported by HACH. There was one spare (used) head remaining and were able to calibrate and install to resolve the issue. A TU5300 turbidity meter has been ordered to have as a new spare unit.

Staff was called out for a DAF air compressor fault. The compressor failed to start and was tripped out possibly due to an electrical surge. The compressor was reset, and the DAF water was wasted to the lagoons for roughly an hour until the settled water quality returned to normal. This was only a onetime event, and the unit has been working well since.

On May 23-24<sup>th</sup> Pennsylvania DEP performed an extensive two-day filter plant performance evaluation. Eight representatives from PA DEP were present and the water treatment plant was thoroughly evaluated. There were no major deficiencies noted during the evaluation. An exit meeting is to be scheduled in the following month.

Inframark staff notified Ebensburg's publics work director of an increase of 100GPM on the low system on May 20<sup>th</sup>.

On May 31<sup>st</sup> EMA's Consumer Confidence Report and certification was submitted to PA DEP.

Water pumping stations were inspected regularly throughout the month. Annual maintenance was performed on the generator at the Hillcrest tank site. The generator was found to be in good condition. The Ogden pumping station chlorine residuals have been stable and do not require boosting this month. The vault in front of the Ogden tank contained some standing water that was pumped out. The meter pits at both Ogden and Saltlick were inspected for water infiltration. No infiltration was discovered. All pumpstation pumps/motors were greased for the month. All three pumping stations were visited and inspected by PA DEP during the inspection as well. PA DEP also collected disinfection by-product samples from EMA's treatment facility, Saltlick, Ogden, and EMA's two distribution compliance sample sites.

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## On the Radar

Lagoon pond pumps

DAF Spare parts

DAF scraper repairs

## 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.
- May 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 May, 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 May 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.
- Completed quarterly method 334.0
- Completed and submitted EMA’s 2023 Consumer Confidence Report and certification.
- Completed 2024 Filter Plant Performance Evaluation (FPPE) with PA DEP.

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## Plant Operations

- Plant production has fluctuated through the month ranging from 1,030,000–1,249,000 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 96 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
May, 2023	902,161	27,967,000	0
June, 2023	912,633	27,379,000	0
July, 2023	860,323	26,670,000	0
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

## Maintenance & Repair

Inframark staff completed 77 work orders in the month of May

- Fire extinguisher inspections
- DAF scraper adjustment/repairs
- Caustic pump check valve repairs

- DAF DEL-PAC pump cleaned
- Replaced DAF turbidity meter head
- CL17 cleaning
- SCBA inspections
- 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	\$73.73	Entry point tap plumbing
HACH	\$2,108.78	Instrument calibration standards/pH probe
The Meter Guy LLC	\$500.00	Annual flow meter calibrations

### Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$25,000	\$19,125.86	\$2,682.51	\$16,443.35

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## Health & Safety

There were no accidents in the month of May. Personnel have worked 1,582 days (4 years, 5 months) without an accident/injury.

### Inframark Training and Presentations

- Weekly tailgate meetings
- Clarifier settling SOP
- CT calculations

## 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