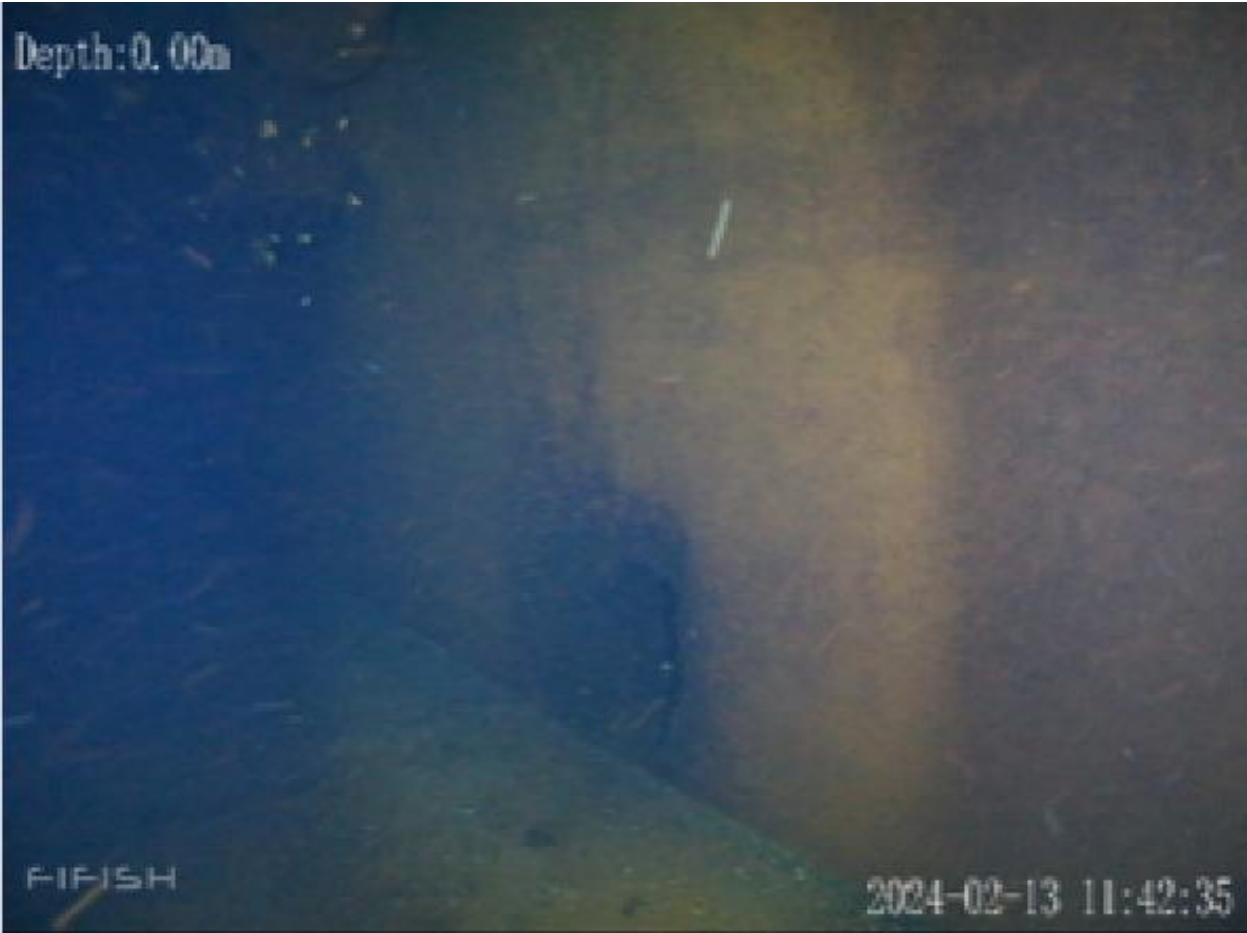


# Ebensburg Municipal Authority

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## February monthly report for WTP



March 25, 2024

Ebensburg Borough  
300 West High Street  
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the February 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 February, the Ebensburg water treatment plant treated 33,399,000 gallons of reservoir water. This equates to an average of 1,151,690 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 February indicate an increase of 266,547 gallons per day.

An average of 67,431 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system.

Inframark completed Ebensburg's WTP facility Tier II reporting. The emergency response plan was also updated at this time and copies of both were sent to the local emergency planning committee (LEPC) and Dauntless firehall.

On February 7<sup>th</sup> staff was called out to the treatment facility for elevated DAF settled turbidity. A power loss to the coagulant pump was discovered. The GFI was reset, and the DAF water was wasted until acceptable turbidity levels were achieved.

Inframark staff performed an interior inspection of the water plant clearwell using a company owned remote operated vehicle( ROV). Several images were captured and observations documented. Overall the inspection was similar to the last inspection noting that there are areas of concrete spalling and corrosion on all metal components. These observations can be expected due to the age of the clearwell.

During the month staff had several issue with the #2 lagoon pump. We are currently working with vendors on pricing to repair these issues.

On February 28<sup>th</sup>, staff installed a new permanganate pump for the clarifiers to replace the temporary pump installed after the original failure. The new pump is working well, and the spare pump has been cleaned and placed on standby.

PA DEP notified EMA that the Ebensburg Water Treatment Plant has been selected to receive a prestigious Area Wide Optimization Program (AWOP) award. The AWOP award recognizes outstanding efforts made toward optimizing filter plant turbidity performance throughout the year. Inframark has earned this award the last three years and strives to achieve it each year. This year nine small filter plants will be presented with AWOP Award at the PRWA conference in state college on March 21<sup>th</sup>.

## On the Radar

Drought Contingency Plan updates

Lagoon pond pumps

DAF VFD secondary mixing

DAF Spare parts

Annual Chapter 110 reports / Consumer Confidence Report (CCR)

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## 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.
- February 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 February, 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 February and all five samples were at or above the minimum.
- Inframark submitted a study/plan to PA DEP detailing historical water loss and future 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.
- Clearwell ROV inspection.

## Plant Operations

- Plant production has fluctuated through the month ranging from 1,068,000 – 1,247,000 gallons/day.
- Filters are washed every 144 hours which results in each filter being washed once per week.
- Filters have been performing well during longer runtimes and this also reduces the amount of backwash water used weekly.
- 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
February 2023	885,143	24,784,000	0
March, 2023	895,484	27,760,000	2.5
April, 2023	909,202	27,276,000	0
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

## Maintenance & Repair

Inframark staff completed 51 work orders in the month of February

- Fire extinguisher inspections
- DAF scraper adjustment
- CL17 cleaning
- Salting/shoveling
- SCBA inspections
- Ladder inspections
- Sump pumps exercised
- DAF Sump pump replaced
- DAF lightning mixer oil level inspections
- Blower lubrication
- Flushed permanganate lines/replaced pump
- DAF raw water valve cycling
- 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
Long Barn	\$91.32	Anchors/shelving project
Spory's Locksmith	\$25.44	Pump station keys
Harbor Freight	\$134.73	Clarifier repairs/magnets
Tractor Supply	\$169.54	Oil/lubricants/grease fitting extension
Home Depot	\$276.91	Light batteries/sample stick/sandpaper/coax adapter
Ace Hardware	\$93.38	Clearwell inspection/plumbing
Hach	\$322.99	pH probe
LB Water	\$315.50	DAF Sump pump
Walmart	\$76.74	Spray bottles/floats/disinfectant wipes
USA Bluebook	\$621.91	Asco pressure sensor

### Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$25,000	\$24,742.98	\$2,128.46	\$22,614.52

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## Health & Safety

There were no accidents in the month of February. Personnel have worked 1,490 days (4 years 2 months) without an accident/injury.

### Inframark Training and Presentations

- Weekly tailgate meetings
- Regulatory requirements for 2024
- Facility description SOP

## Personnel

Name	Title	Operator Certifications
Kyle Smiley	Operator	PA Class A, E, Subclass 1
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 PA Class A, E, Wastewater