

Ebensburg Municipal Authority

October monthly report for WTP



November 20th, 2023

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,
Inframark is pleased to submit the October 2023 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 26,551,000 gallons of reservoir water. This equates to an average of 856,484 gallons per day. The table found in plant operations of this packet showcases past month's historical average flows.

An average of 58,980 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system.

Third 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 fourth quarter in a row that the system has been under the MCL.

The WTP generator was serviced and found to be in good operating condition.

On October 16th, annual maintenance was performed on the facilities chlorine feed equipment.

Inframark contacted LB water meter specialist to diagnose an issue with the meter at the saltlick pumping station. It was determined the output signal converter was faulty. This instrument has been sent back to the factor for repair.

On October 25th, PA DEP collected raw water samples monitoring for cyanotoxins in the raw water source. There were no detects in the sample collected.

The DAF unit remains offline until the raw water manganese levels drop back down below the MCL. We should be able to return the unit into service middle to end of November.

The downstream by-pass flow valve has been operated several times throughout the month to meet the instream flow requirement of 270,000 GPD.

On the Radar

Service clarifiers

PA DEP inspection correctives

Drought Contingency Plan updates

DAF repairs/inspections

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
- Every month 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. Every month we are also 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 received the 2022 Water Allocation Permit Compliance Report from PA DEP. The report was completed and submitted to PA DEP November 3rd, 2023.
- 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.
- Collected third quarter disinfection by-product samples.
- 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 856,484 – 930,000 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 flows

Date	Average gallons filtered per day	Total gallons filtered per month	Days Supplying Nanty Glo
October, 2022	949,452	29,433,000	15
November, 2022	1,017,267	30,518,000	15
December, 2022	915,387	28,377,000	0
January, 2023	1,041,323	32,281,000	19
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

Maintenance & Repair

Inframark staff completed 99 work orders in the month of October

- Fire extinguisher inspection
- SCBA inspections
- Ladder inspections
- Sump pumps exercised
- DAF repairs/inspections
- Blower lubrication
- Finished water pump packing inspections
- Hillcrest chlorine analyzer cleaning/calibration
- Ogden tank chemical feed system inspections
- Eye wash/safety shower inspections
- Grease clarifier drives
- Cleaned clarifier troughs
- Chlorine room alarm test
- Chlorine room equipment PM

- 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
RAM Industrial Services	\$834.74	Baldor ¾ HP motor for DAF
Long Barn	\$130.65	DAF decking for wiper repair
Heritage Environmental	\$2203	Annual chlorine room equipment PM

Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,522.00	\$14,772.88	\$3,168.39	\$11,604.49

Health & Safety

There were no accidents in the month of October. Personnel have worked 1,369 days (3 years 10 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Winter weather SOP review

Personnel

Name	Title	Water Operator Certifications
Luke Byrne	Water Plant Manager	PA Class A, E, Water Subclass 1,7,8,10,11
Kyle Smiley	Operator	PA Class A, E, Subclass 1