

Ebensburg Municipal Authority

February monthly report for WTP



March 27, 2023

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,
Inframark is pleased to submit the February 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 February, the Ebensburg water treatment plant treated 24,784,000 gallons of reservoir water. This equates to an average of 885,143 gallons per day. February 2023 production indicates roughly an 80,000 gallon per day reduction in water when compared to February 2022. The table found in plant performance of this packet showcases past month's historical average flows.

An average of 61,216 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system.

On February 2nd the elevated tank was put back into service. Pump alternations were monitored and alarm setpoints were restored in SCADA.

On February 14th Inframark conducted an electrical evaluation and assessment of EMA's water pumping stations and sewer lift stations. Inframark will be discussing this evaluation with the borough manager Wednesday March 22nd.

On February 9th, PA DEP notified EMA that the Ebensburg Water Treatment Plant has been selected to receive a prestigious Area Wide Optimization Program (AWOP) award. Inframark has received this award the last three years and strives to achieve it each year. This year eight small filter plants will be presented with AWOP Award at the PRWA conference in state college on March 30th.

While working on annual Chapter 110 reports, Inframark discovered roughly 14 million gallons of revenue water totaling roughly \$38,000 that can be billed to Nanty Glo for 2022.

On the Radar

Service clarifiers

DAF service

Annual Chapter 110 reports

Consumer Confidence Report (CCR)

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.
- 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.
- 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 February, 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. Four samples were collected in February and all four samples were at or above the minimum requirement.
- 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 729,000-1,140,000 gallons/day
- Each filter is washed every 72 hours which results in each filter being washed twice per week
- Conduct process control analysis
- 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
- DAF scraper adjustments

- DAF air saturation setpoint adjustments
- 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
February, 2022	964,679	27,011,000	0
March, 2022	1,003,806	31,118,000	0
April, 2022	960,800	28,824,000	0
May, 2022	1,013,742	31,426,000	17
June, 2022	786,433	23,593,000	0
July, 2022	760,323	23,570,000	0
August, 2022	775,935	24,054,000	7
September, 2022	1,047,267	31,418,000	30
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

Maintenance & Repair

Inframark staff completed 79 work orders in the month of February

- Ladder inspections
- Greased DAF recycle pump
- Greased DAF scraper
- Fire extinguisher inspection
- SCBA inspections
- Sump pumps exercised
- 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
- DAF wash valve repair
- Pumped standing water in effluent valve vault
- Monitored filter beds for deficiencies
- Cleaned lagoon vault
- Cleaned facility

Financial Update

Maintenance Expenditures

Vendor	Expense	Description
Long Barn	\$68.64	Plumbing solder/map gas/flux

Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,522.00	\$26,522.00	\$68.64	\$26,453.36

Health & Safety

There were no accidents in the month of January. Personnel have worked 1,124 days (3 years 2 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- Reviewer/preparer check list

Personnel

Name	Title	Wastewater 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

Ebensburg Municipal Authority

February 2023 monthly report for Ebensburg WWTP



March 27, 2023

Ebensburg Borough
300 West High Street
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Dear Authority Members,
Inframark is pleased to submit the February 2023 monthly report detailing the operations and maintenance of the Ebensburg wastewater treatment facility.

Thank you for the opportunity to provide Operations and Maintenance Services to the Borough 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,
Michael Montgomery

Executive Summary

During the month of February 2023, Ebensburg wastewater treatment plant treated 22,792,471 million gallons of clean water to Howells Run. This equates to a daily average of .6651 million gallons for the month of February. All testing and operational requirements were met for the month of February. Centrifuge operation was ran as needed for the month of February and 6.530 tons of sludge was sent to the landfill.

On the Radar

Borough Engineer is looking into getting a new 20" influent valve installed at the facility, for SBR tank # 2. Contractor Hickes on site (12-7-22) to look at up and coming valve replacement project.

Operations

Compliance:

- Mon, Wed, Fri SBR tank testing is done for process control purposes.
- Tues, Thurs influent and effluent compliant testing is done for reporting to DEP.
- All data is entered into the computer daily for monthly reporting.
- Monthly reports are sent to DEP electronically by the 28th of each month.

Plant Operations

- Made plant rounds and equipment checks daily several times a shift.
- Ran centrifuge was ran as needed for the month.
- Influent screening unit hosed and cleaned daily.
- Work orders complete for the month.
- Swept and hosed influent building floor, centrifuge building floor, centrifuge sludge dumpster area.

- Plant safety inspection complete for the month of February 2023

Maintenance & Repair

- Greased decanters on SBR tanks for the month
- Monthly safety inspection complete for the month.
- Centrifuge building floor hosed and cleaned as needed.
- Control building floors swept and mopped weekly.
- U.V. channel was hosed and cleaned. Banks A and B bulbs were hosed and cleaned.

Financial Update

Maintenance Expenditures

State Chemical	\$306.42	1 Case of bee spray

Caps For WWTP	Contract Total per Year	January 2023	Contract year to date	Remaining Balance
Maintenance Cap	\$25,691.76	\$306.42	\$306.42	\$25,385.34
Sludge	\$84,782.76	\$7,158.00	\$7,158.00	\$77,624.76

Health & Safety

There were no accidents in the month of February. Personnel have worked 6602 Days (18 years 0 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- Cyber security updates

Personnel

Name	Title	Wastewater Operator Certifications
Michael Montgomery	Plant Manager	PA Class A, E, Wastewater Subclass 1,2,3,4
Sharon Burkett	Lab Supervisor	PA Class A, E, Wastewater Subclass 1,2,3,4,5
Kyle Smiley	Operator	PA Class A, E, Water Subclass 1
	Operator in Training	

Ebensburg Municipal Authority

Effluent Quality and Permit Compliance for

[February] Monthly Report [3/27/2023]

Operations

- ✓ Plant returned 22,792,471 million gallons of clean water to Howells Run
- ✓ All tests and operational requirements were met for February.

Maintenance & Repair

- I. Made daily equipment checks and plant rounds several times a shift.
- II. Plant safety inspection complete for the month.
- III. Ran centrifuge as needed for the month.
- IV. Swept and mopped control building floors weekly
- V. Hosed and cleaned U.V channel. Cleaned U.V bulbs on A and B banks.
- VI. Work orders are up to date.

Caps	This Month	Contract Year to Date	Remaining Balance
Maintenance Cap	\$306.42	\$306.42	\$25,385.34
Sludge Disposal Cap	\$7,158.00	\$7,158.00	\$77,624.76

Michael J. Montgomery
Plant Manager- Ebensburg WWTP