

# Ebensburg Municipal Authority

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June 2023 monthly report for Ebensburg WWTP



July 24, 2023

Ebensburg Borough  
300 West High Street  
Ebensburg, PA 15931

Dear Authority Members,  
Inframark is pleased to submit the June 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

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## Executive Summary

During the month of June 2023, Ebensburg wastewater treatment plant treated 13,421,000 million gallons of wastewater. This equates to a daily average of 447,000 million gallons per day for the month of June.

All testing and operational requirements were met for the month of June.

Centrifuge operation was run as needed for the month of June and 9.217 tons of sludge was sent to the landfill.

Inframark staff replaced failing aeration valve on SBR tank #1.

## On the Radar

Replacing wiper seals on U.V. wiper system.

Ordered 3 new SBR aeration valves to replace existing valves.

Removing mixers and sludge pumps from tanks to change oil.

## Operations

### Compliance:

- SBR tank testing is done for process control purposes on Monday, Wednesday, and Friday.
- Influent and effluent compliant testing is done for reporting to DEP on Tuesday and Thursday.
- All data is entered into WIMS daily for E-DMR monthly reporting.
- Monthly reports are sent to DEP electronically by the 28<sup>th</sup> of each month.

## Plant Operations

- Made plant rounds and equipment checks daily twice a shift.
- Blowers oil levels, belts.
- Screening unit is operating properly and no blockages
- U.V. unit has power and operating properly
- Influent and Effluent samplers operating properly
- Ran centrifuge as weekly for the month.
- Influent screening unit hosed and cleaned daily.
- Swept and hosed influent building floor, centrifuge building floor, centrifuge sludge dumpster area.
- Hosed and cleaned U.V. trough, bulbs, sensors twice for the month

## Maintenance & Repair

- Greased decanters on SBR tanks for the month.

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- Centrifuge building floor hosed and cleaned twice a week
  - Control building floors swept and mopped weekly.
  - Cut grass and weed eating around the plant weekly for the month.
  - Completed 281 work orders for the month

## Financial Update

### Maintenance Expenditures

Applied Technologies	\$1,106.38	Spare motor for screening unit
Ace Hardware	\$47.23	Extension cord
Grainger	\$276.47	Cable and fittings for mixers
Uni-Mart	\$31.50	Gas for mower, weed eater
Ace Hardware	\$60.18	Garden Hose
Wal-Mart	\$67.64	Cleaning supplies, logbooks
NAPA	\$165.21	New battery for loader
Wal-Mart	\$162.06	Office supplies, cleaning supplies
<b>Total</b>	<b>\$1,916.67</b>	

<b>Caps For WWTP</b>	<b>Contract Total per Year</b>	<b>June 2023</b>	<b>Contract year to date</b>	<b>Remaining Balance</b>
Maintenance Cap	\$25,691.76	\$1,916.67	\$13,641.47	\$12,050.29
Sludge	\$84,782.76	\$6,259.61	\$22,853.59	\$61,929.17

## Health & Safety

There were no accidents in the month of June. Personnel have worked 6,740 Days (18 years 3 months) without an accident/injury.

### Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- Heat stroke awareness
- Monthly safety inspection complete for the month
- Fire Extinguishers inspected
- Diesel fuel tank inspected
- Generator tank inspected
- Propane tank inspected
- Ladders inspected

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July 24, 2023

Ebensburg Borough  
300 West High Street  
Ebensburg, PA 15931

Dear Authority Members,  
Inframark is pleased to submit the June 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

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## Executive Summary

During the month of June, the Ebensburg water treatment plant treated 27,379,000 gallons of reservoir water. This equates to an average of 912,633 gallons per day. June 2023 production indicates an increase of 126,200 gallon per day in water when compared to June 2022. The table found in plant operations of this packet showcases past month's historical average flows.

An average of 63,608 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system.

Inframark staff assisted Ebensburg's public work director in achieving compliance with his Initial Demonstration of Capability for analyzing Chlorine (Method 334.0)

On June 2<sup>nd</sup> high water flow alarms were triggered due to a mainline break. Inframark located the mainline break and assisted Ebensburg's maintenance crew with location of the valve to isolate the leak. Inframark recommended issuing a boil water notice due to the need to open cut the mainline and loss of positive pressure.

PA DEP, on behalf of Governor Josh Shapiro, issued a "Drought Watch" for all 67 counties in Pennsylvania. Currently the upper reservoir is roughly -2.2ft below the spillway. Inframark has reviewed EMA's Drought Contingency Plan and is working with Borough staff to educate all parties involved on the responsibilities and action plans should the drought conditions continue.

On June 20<sup>th</sup>, PA DEP collected raw water samples monitoring for cyanotoxins in the raw water source. There were no detects in the sample collected. I informed Josh that PA DEP made a comment on the upper reservoir gate being unsecured/damaged. I would like to thank Josh for repairing the damaged gate. We are also working on some signage for the gate at the upper reservoir and the WTP facility.

A full service was performed by Inframark on the WTP air scour blower unit. Oil and grease were changed along with the air filter. Belts were inspected and tensioned.

On June 21<sup>st</sup> the upper reservoir stream flow valve was shut due to flows meeting the 270,000 gallon per day down stream flow requirement.

On June 23<sup>rd</sup>, Inframark staff completed the required second quarter filter bed evaluation on filter #3. The filter was found to be in excellent condition and performing well

Inframark staff fixed a chlorine feed issue at the borough pool.



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## On the Radar

Service clarifiers

PA DEP inspection correctives

Drought Contingency Plan updates

Bulk chemical tank cleanout

DAF scrapper adjustments/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
- June 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 June, 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 June and all four samples were at or above the minimum requirement
- 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
- Completed second quarter filter evaluation
- 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 817,000-1,188,000 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 also reduce the amount of backwash water used weekly
- 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
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
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

## Maintenance & Repair

Inframark staff completed 92 work orders in the month of June

- Greased DAF recycle pump
- Greased DAF scraper
- Fire extinguisher inspection
- SCBA inspections
- Ladder inspections
- Sump pumps exercised

- Eye wash/safety shower inspections
- Grease clarifier drives
- Changed oil, grease, and air filter on the air scour blower unit
- Four-way valve changed on caustic pump
- Cleaned clarifier troughs
- Cleaned and replaced hose on CL17 analyzer
- 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
Ram Industrial Services	\$855.52	Motor for clarifier drive
WALMART	\$62.50	Carbon monoxide detector
Ace Hardware	\$13.07	Fasteners/drill bit
TRACTOR SUPPLY	\$130.26	Blower oil/grease
AMAZON	\$49.77	DAF Scraper rubber
THE METER GUY	\$650.00	Flow meter calibrations
HARBOR FREIGHT	\$142.36	Hoist lift straps/pressure gauges/magnet
HACH COMPANY	\$1,128.58	pH sensor

### Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,522.00	\$23,063.17	\$3,032.06	\$20,031.11

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## Health & Safety

There were no accidents in the month of June. Personnel have worked 1,246 days (3 years 6 months) without an accident/injury.

### Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- Drought Contingency Plan (DCP) review

## 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
Jacob Dumm	Operator in training	Preparing for Exam

## Appendix

Equipment Status Report

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