

# Ebensburg Municipal Authority

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July 2023 monthly report for Ebensburg WWTP



July 28, 2023

Ebensburg Borough  
300 West High Street  
Ebensburg, PA 15931

Dear Authority Members,  
Inframark is pleased to submit the July 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 July 2023, Ebensburg wastewater treatment plant treated 16,044,800 million gallons of wastewater. This equates to a daily average of 510,000 gallons per day for the month of July.

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

Centrifuge operation was run as needed for the month of July and 8.949 tons of sludge was sent to the landfill.

## On the Radar

Replacing wiper seals on U.V. wiper system.

Ordered 3 new SBR aeration valves to replace existing valves.

Cleaning out drying beds

## 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.
- Checked oil and belts on blowers daily
- 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

- Sent 3 SBR mixers out for repair

- 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 341 work orders for the month
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## Financial Update

### Maintenance Expenditures

Kaza	\$1,054.70	Confined space meter/ gas meter
Ace Hardware	\$ 9.33	2" PVC pipe
Tractor Supply	\$24.34	Snap rings for SBR mixers
Get - Go	\$ 36.45	Gas for mower, weed eater
Hoovers Garage	\$39.50	2- Lawn mower blades
LB Water	\$2.12	Nuts for aeration valve
Scanlan	\$50.10	Fuses for mixers, screening unit
NAPA	\$130.94	5 gallon of gear oil for gearboxes
Dodson Electric	\$765.80	Electrical work and new contactors for SBR mixers
Lubrication Engineers	\$767.33	2-5-gallon buckets of oil for plant blowers
Home Depot	\$210.94	4" cordless grinder

Caps For WWTP	Contract Total per Year	July 2023	Contract year to date	Remaining Balance
Maintenance Cap	\$25,691.76	\$3,091.55	\$16,408.94	\$9,282.82
Sludge	\$84,782.76	\$4,9626.89	\$27,780.48	\$57,002.28

## Health & Safety

There were no accidents in the month of July. Personnel have worked 6,770 Days (18 years 4 months) without an accident/injury.

### Inframark Training and Presentations

- Weekly tailgate meetings

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- 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

## Personnel

<b>Name</b>	<b>Title</b>	<b>Wastewater Operator Certifications</b>
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
Jake Dumm	Operator in Training	

# Ebensburg Municipal Authority

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July monthly report for WTP





August 28<sup>th</sup>, 2023

Ebensburg Borough  
300 West High Street  
Ebensburg, PA 15931

Dear Authority Members,  
Inframark is pleased to submit the July 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 July, the Ebensburg water treatment plant treated 26,670,000 gallons of reservoir water. This equates to an average of 860,323 gallons per day. July 2023 production indicates an increase of 100,000 gallons per day in water when compared to July 2022. The table found in plant operations of this packet showcases past month's historical average flows.

An average of 57,247 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system.

On July 5<sup>th</sup>, disinfection by product samples were collected in Ebensburg's distribution system. The results were found to be under half the maximum contaminant level at both sample sites for HAA5's. When calculated, these low results have allowed Ebensburg's system to achieve compliance and avoid issuing a public notice this quarter.

On July 7<sup>th</sup>, Inframark began operating the Ogden tank chlorine booster station. Chlorine feed equipment was set up and a dosing plan was created. Water quality analysis and operations of the chemical feed equipment are conducted daily.

On July 12<sup>th</sup>, Inframark hosted a tour for Saint Francis University's water reclamation academy. Professor Mr. Tasker and his students were very grateful for the opportunity to tour Ebensburg's treatment facility. I would also like to thank the Authority for allowing Inframark to host events like this at Ebensburg's facility.

Over the past several months Inframark has been checking in on the WWTP pumping stations to assist with additional monitoring at these facilities. On July 13<sup>th</sup> we discovered the Emerald estates pumping station was in alarm and failing to pump. We also discovered the dialer for call outs at that location was turned off. Working together with borough staff, we were able to fix the motor pumping issues and restore the dialer to enable call outs.

On July 26<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.

Hartford Steam Boiler Inspection and Insurance Company conducted annual inspections of the WTP's boilers. Both boilers passed the inspection and certifications were renewed.

Kaza Fire Equipment performed annual inspections and renewal of four fire extinguishers at the WTP.

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



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## On the Radar

Service clarifiers

PA DEP inspection correctives

Drought Contingency Plan updates

Bulk chemical tank cleanout

Aeration chamber cleanout

## 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
- July 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 July, 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
- Collected third quarter disinfection by product samples and calculated annual compliance
- 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 776,000 - 920,000 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 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
- Over night flow monitoring
- Pump station monitoring
- 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
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
July, 2023	860,323	26,670,000	0

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## Maintenance & Repair

Inframark staff completed 94 work orders in the month of July

- Greased DAF recycle pump
- Greased DAF scraper
- Fire extinguisher inspection
- SCBA inspections
- Ladder inspections
- Sump pumps exercised
- CL-17 replaced hosing and cleaned
- Inspected boiler jackets
- Ogden tank chlorine feed line repair
- Pumped out vault at Ogden tank
- Rebuilt LMI pump at Ogden tank
- 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

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## Financial Update

### Maintenance Expenditures

Vendor	Expense	Description
Instrulogic	\$1,096	DAF VFD reprogram

### Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,522.00	\$20,031.11	\$1,096	\$18,935.11

## Health & Safety

There were no accidents in the month of June. Personnel have worked 1,277 days (3 years 7 months) without an accident/injury.

### Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Emergency Action Plan 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
Jacob Dumm	Operator in training	Preparing for Exam