

# Ebensburg Municipal Authority

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November monthly report for WTP



December 19, 2022

Ebensburg Borough  
300 West High Street  
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the November 2022 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 November, the Ebensburg water treatment plant treated 30,5180,000 gallons of reservoir water. This equates to an average of 1,017,267 gallons per day. The table found in plant performance of this packet showcases past month's historical average flows. It should be noted Ebensburg was supplying water to Nanty Glo during several weeks of this month.

An average of 122,045 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system. This number is higher than usual due to Nanty Glo purchasing water during the month.

Inframark staff replaced a failing pressure transmitter on the upper reservoir transmission line.

Inframark staff replaced burnt out indicator lights on the plant generator. These lights are an important indicator in understanding the status of facility power when the generator is running.

While completing Ebensburg's 2021 water allocation compliance report, Inframark discovered some requirements that were overlooked. These requirements consist of a study and plan to reduce unaccounted for water in Ebensburg's distribution system. The study and plan were to be developed in 2018. Inframark is and will continue to work with borough staff and Pennsylvania DEP to correct this oversight.

On November 30<sup>th</sup>, Inframark was asked to assist the county maintenance crew on manor drive with a water leak on their property. We were able help them isolate the water loss and make the repair. Pat Kelly expressed his gratitude, and we were more than happy to help.

On November 23<sup>rd</sup>, representatives from the Department of Environmental Protection (DEP) Bureau of Safe Drinking Water conducted a site visit at the Ebensburg WTP to collect a sample to be analyzed for the cyanotoxins in the raw source water.

Inframark is assisting borough staff with SCADA monitoring while refilling the hillcrest elevated tank.

## On the Radar

Service clarifiers

Plumbing changes for eye wash station

DAF spare parts

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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.
- November monthly compliance reporting was collected and submitted to PA DEP.
- Inframark submitted Ebensburg’s 2021 annual water allocation compliance report.
- 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 November, 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 November and all five 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.
- Performed method 334.0 on chlorine analyzers
- Collected and documented comparative grab samples to ensure accuracy of continuous turbidimeters and pH analyzers.
- Monitor water quality in clear well

## Plant Operations

- Plant production has fluctuated through the month ranging from 700,000-1,339,000 gallons/day
- Nanty Glo has purchased water a few weeks this month ranging from 360,000-432,000 gallons/day
- Daily one filter is taken offline, washed, and placed back into service when clean
- Conduct process control analysis
- Backwash flow rates are being monitored daily
- Filter media is being 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 scrapper adjustments
- DAF air saturation setpoint adjustments

- Monitor clarifier flow setpoints
- Online instrument flow is 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
January, 2022	856,032	26,537,000
February, 2022	964,679	27,011,000
March, 2022	1,003,806	31,118,000
April, 2022	960,800	28,824,000
May, 2022	1,013,742	31,426,000
June, 2022	786,433	23,593,000
July, 2022	760,323	23,570,000
August, 2022	775,935	24,054,000
September, 2022	1,047,267	31,418,000
October, 2022	949,452	29,433,000
November, 2022	1,017,267	30,518,000

## Maintenance & Repair

Inframark staff completed 82 work orders in the month of November

- Replaced upper reservoir pressure transmitter
- Ladder inspections
- Greased DAF recycle pump
- Greased DAF scrapper
- Fire extinguisher inspection
- SCBA inspections/ annual flow testing
- Sump pumps exercised
- Eye wash/safety shower inspections
- Grease clarifier drives
- Chlorine room alarm test
- Remove lagoon vault sludge
- Greased finished water pumps/motors
- Alternated finished water pumps weekly
- Cleaned pH and turbidity meters weekly
- Jar testing to optimize chemical usage
- Water line plumbing
- All plant instrumentations and programmable logic controllers were adjusted for daylight savings time.
- Removed debris from spillway area
- Monitored filter beds for deficiencies
- Replaced generator indicator lights
- Cleaned lagoon screens
- Cleaned facility

## Financial Update

### Maintenance Expenditures

Vendor	Expense	Description
WPSG, INC.	\$197.00	SCBA flow test
Ace Hardware	\$27.10	Pressure reducer/ Back flow preventer/fittings
USA Blue Book	\$660.42	Pressure transmitter/ Raw water solenoid
Cummins INC.	\$66.12	Generator indicator lights
Lubrication Engineers	\$1170.73	DAF/Blower/Clarifier gear oils

### Caps

Caps For WTP	Contract Total per Year	Previous Balance	Total Spent This Month	Remaining Balance
Maintenance Cap	\$26,010.00	\$13,171.63	\$2,121.37	\$11,050.26

## Health & Safety

There were no accidents in the month of November. Personnel have worked 1,034 days (2 years 10 months) without an accident/injury.

### Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- AWWA disinfection of water storage facilities

## 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

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Dear Authority Members,  
Inframark is pleased to submit the November 2022 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 November, the Ebensburg wastewater treatment plant treated 26.997 million gallons of clean water to Howells Run. This equates to a daily average of .899 million gallons for the month of November. All testing and operational requirements were met for the month of November. Centrifuge operation was run two times a week for the month of November and 5.419 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 28<sup>th</sup> of each month

## Plant Operations

- Made plant rounds and equipment checks daily several times a shift
- Ran centrifuge two times a week 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 November

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## Maintenance & Repair

- Cleaned U.V. banks and refilled with lime away
- 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

## Financial Update

### Maintenance Expenditures

Vendor	Expense	Description
	\$ 650.00	Yearly inspection for plant cranes
Ace Hardware	\$51.77	Heat tape, insulation, tape, for effluent sampler
Home Depot	\$57.77	5-gallon buckets for centrifuge oil change


<b>Caps For WWTP</b>	<b>Contract Total per Year</b>	<b>November 2022</b>	<b>Contract year to date</b>	<b>Remaining Balance</b>
Maintenance Cap	\$23,895.24	\$823.34	\$22,649.32	\$1,245.92
Sludge	\$78,854.40	\$11,812.29	\$60,730.31	\$18,124.09

## Health & Safety

There were no accidents in the month of November. Personnel have worked 6510 Days (17 years 8 months) without an accident/injury.

### Inframark Training and Presentations

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

## 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
Ryan Lanzendorfer	Operator in Training	

# Ebensburg Municipal Authority

Effluent Quality and Permit Compliance for

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## [November] Monthly Report [12/19/2022]

### Operations

- ✓ Plant returned 26.997 million gallons of clean water to Howells Run
- ✓ All tests and operational requirements were met for November

### 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 weekly for the month
- IV. Cut grass and weed eat around plant
- V. Swept and mopped control building floors weekly
- VI. Cleaned U. V. banks and filled with lime away

Caps	This Month	Contract Year to Date	Remaining Balance
Maintenance Cap	\$823.34	\$22,649.32	\$1,245.92
Sludge Disposal Cap	\$11,812.29	\$60,730.31	\$18,124

**Michael J. Montgomery**  
**Plant Manager- Ebensburg WWTP**