

Ebensburg Municipal Authority

September monthly report for WTP



October 24, 2022

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,
Inframark is pleased to submit the September 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

Executive Summary

During the month of September, the Ebensburg water treatment plant treated 31,418,000 gallons of reservoir water. This equates to an average of 1,047,267 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 through the entire duration of September.

An average of 94,319 gallons per day was purchased from Saltlick and blended into Ebensburg's distributions system. This number is higher than usual due to Nanty Glo and Jackson township purchasing more water through the month of September.

Increased flows through the Ogden tank site provided a great opportunity to gather informational data on the impacts water turn over has on disinfection by-product formation. Inframark collected samples the first week of September that showcased disinfection by-product formation was reduced to half the maximum contaminant level at sample site 701 airport.

SCADA battery backup components have been repaired and tested to prevent the loss of power during outages.

Staff has closed the upper reservoir bypass line to supplement the downstream flow requirement of 270,000 gallon per day. Recent weather conditions have supplied adequate flows to meet the downstream requirement.

On September 6th Inframark notified the public works director (Josh) of a chemical spill at the Ogden tank pump station. When Inframark staff arrived to collect month samples at Ogden, a strong chlorine odor was present. Sodium hypochlorite appeared to be on the walls and floor. Josh informed me a few days later that a chemical feedline had broken causing the leak.

Inframark staff completed a visual exterior and interior inspection of the backwash tank located at the WTP facility. The tank was found to be in excellent condition.

On September 26, 2022, 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. No detections were found in samples collected in August.

The elevated tank at Hillcrest has been drained and work is scheduled to begin there the first week in October. Inframark met with Ebensburg's public works director to provide a username and explain remote SCADA controls/data. The remote access will be vital to understanding what is happening if power is lost during the tank painting process. During this time, I also informed Josh of a possible leak on the low system. Trending indicated an increase of 30 gallons per minute overnight flows.

On the Radar

Service clarifiers

Blower maintenance (Inspections/oil change)

DAF mixer maintenance (Inspections/oil change)

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.
- Monthly Compliance reporting for October is being compiled and will be submitted to PA DEP no later than November 10th, 2022.
- 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 September, 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 September and all four samples were at or above the minimum requirement.
- Second quarter filter evaluation was completed on filter #1. The filter was found to be in excellent condition meeting all design specs.
- 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 clear well

Plant Operations

- The plant is currently treating 1,100,000-1,200,000 gallons of water per day
- Nanty Glo is purchasing between 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 inspected 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 showcasing how water leak repairs have decreased water demand.

| 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 |

Maintenance & Repair

Inframark staff completed 64 work orders in the month of September

- Lubricated blower motor
- Ladder inspections
- Greased DAF recycle pump
- Greased DAF scrapper
- Fire extinguisher inspection
- SCBA inspections
- 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
- Monitored filter beds for deficiencies
- Painted the loading dock
- Hillcrest chlorine monitor calibration
- Plant grating clip inspection
- Backwash tank inspection
- Cleaned lagoon screens

- Cleaned facility

Financial Update

Maintenance Expenditures

| Vendor | Expense | Description |
|---------------------------|------------|---|
| USA Blue Book | \$3,074.12 | Lagoon pond mixers/grease/absorbent pads |
| Ace Hardware | \$39.67 | Bee spray/ tamper proof bit set |
| Custom Controls Unlimited | \$902.50 | SCADA programming new volumes for hillcrest |
| Amazon | \$99.63 | Battery backup |

Caps

| Caps For WTP | Contract Total per Year | Previous Balance | Total Spent This Month | Remaining Balance |
|-----------------|-------------------------|------------------|------------------------|-------------------|
| Maintenance Cap | \$26,010.00 | \$17,829.18 | \$4,115.92 | \$13,713.26 |

Health & Safety

There were no accidents in the month of September. Personnel have worked 973 days (2 years 8 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- COVID-19 news and updates
- Personal Protective Equipment
- Chemical spill management 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 |
| Ryan Lanzendorfer | Operator in Training | |

Ebensburg Municipal Authority

September monthly report for Ebensburg WWTP



October 26, 2022

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,
Inframark is pleased to submit the September 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

Executive Summary

During the month of September, the Ebensburg wastewater treatment plant treated 23.010 million gallons of clean water to Howells Run. This equates to a daily average of .767 million gallons for the month of September. All testing and operational requirements were met for the month of September. Centrifuge operation was run two times a week for the month of September and 9.336 tons of sludge was sent to the landfill.

On the Radar

New HMI on U.V. unit replaced by Trojan technician; HMI was replaced under warranty. Borough Engineer is looking into getting a new 20" influent valve installed at the facility, for SBR tank #2

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 two times a week for the month
- Influent screening unit hosed and cleaned daily

Maintenance & Repair

- Cleaned polymer pump, lines, mixing tank due to blockage in system
- Greased decanters on SBR tanks for the month
- Monthly safety inspection complete for the month
- Centrifuge building floor hosed and cleaned as needed
- Cut grass and weed eat around plant
- Control building floors swept and mopped weekly

Financial Update

Maintenance Expenditures

| Vendor | Expense | Description |
|--------------|----------|---|
| EXXONMOBIL | \$20.75 | Mower fuel |
| Sheetz | \$19.25 | Mower fuel |
| Ace Hardware | \$110.30 | Plexa glass, Fasteners for mixer cables |
| | | Paint scraper and blades, caulking gun |
| | | caulking |
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| Caps For WWTP | Contract Total per Year | September 2022 | Contract year to date | Remaining Balance |
|----------------------|--------------------------------|-----------------------|------------------------------|--------------------------|
| Maintenance Cap | \$23,895.24 | \$150,30 | \$2,514.72 | \$3,324.70 |
| Sludge | \$78,854.40 | \$6,381.86 | \$35,409.63 | \$49,826.63 |

Health & Safety

There were no accidents in the month of September. Personnel have worked 6450 Days (17 years 7 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 |
| Ryan Lanzendorfer | Operator in Training | |