

Ebensburg Municipal Authority

August monthly report for WWTP



September 23, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the August 2024 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,
Luke Byrne

Executive Summary

During the month of August, the Ebensburg wastewater plant treated 18,028,400 million gallons of wastewater. This equates to an average of 581,600 gallons per day.

The centrifuge was operated once a month on average and 2.57 tons of dry sludge was sent to the landfill.

During August, Inframark continues our mission to inspect the WWTP equipment to create a ten-year capital improvement plan. We have been thoroughly inspecting each piece of equipment along with our mechanic to identify the condition and age of each asset. This month we have identified the need for new heaters in the screening unit building. Last year one of the units was repaired by replacing a sensor and cleaning the internal heat exchangers and the other unit was determined unrepairable. As we approach the heating season, I have been working with the borough manager to prioritize this request as we have recently discovered the unit that was repaired, is not operating properly.

Staff has installed 3 new waste activated sludge pumps in SBR#2, 3, & 4.

A new AUMA air valve actuator and level sensor was installed and programed on SBR#1. This allowed us to place SBR#1 back online and restored the biosolids treatment process to 100%.

The UV unit was lifted to replace two bulbs and also clean the bulb lenses. During this time, we also cleaned out the UV basin.

Rebuilt two electric solenoid valves for the flush process on the centrifuge.

Installed a new DO probe on #4 SBR tank.

New belts were installed on the exhaust fan for the blower building.

Annual inspections were performed on the overhead cranes at the facility.

On August 9th a heavy rainfall event passed through our area. 4.25 inched of rain was recorded at the facility in A 24hr period. The plant was placed into storm mode which allows the retention of solids and discharge of clear water.

The sewer lift stations were inspected regularly throughout the month. The pump runtime hours were documented, and generators were exercised. Inframark worked with RAM Industrial repairing wear rings and impellers on both pumps at the Industrial Park marine center pumping station. Overgrown brush was removed from around the fences at all three pumping stations.

On the Radar

Centrifuge flow meter

Screening unit repairs

Screening unit heating units

UV wiper replacement/inspection

Operations

Compliance:

- SBR tank testing is performed for process control purposes on Monday, Wednesday, and Friday of each week. Analysis completed is one Settleability, one Mixed Liquor Suspended Solids (MLSS) one Mixed Liquor Volatile Suspended Solids (MLVSS).
- Influent and effluent compliant testing is completed for reporting to DEP on Tuesdays and Thursdays. The testing performed is two Influent Total Suspended Solids (TSS) and two biological oxygen demand (BOD). Two effluent Total Suspended Solids (TSS), two Carbonaceous Biological Oxygen Demand (CBOD), two Phosphorus, two Total Kjeldahl Nitrogen, two Nitrate-Nitrite, two Ammonia as N, and two fecal coliform samples.
- Effluent pH and Dissolved Oxygen are done 7 days a week.
- Record UV intensity.
- Composite samples collected.
- All data is entered into WIMS daily for E-DMR monthly reporting.
- Monthly reports are sent to DEP electronically by the 28th of each month.

Plant Operations

- Inspected Industrial Park and Emerald Estates pump stations
- Composite samplers are inspected, and samples collected
- Screening unit inspections/clean outs daily
- Grit removal process inspections
- Record/adjust process SBR phases
- Dissolved oxygen was increased to optimize seasonal changes
- Utility water pumping
- Operations of WAS pumps vs settleability
- Sludge pumped up to digesters for thickening
- Decant digesters to allow more thickening
- Process control lab work completed daily
- Centrifuge operations
- Optimize polymer feed system
- Sludge dumpster preparation

- Removed floating debris in SBR tanks
- Aeration cycles altered to optimize sludge
- Influent and Effluent samplers checked daily
- UV operational checks

Maintenance & Repair

- Inframark staff completed 118 work orders in the month of August
- Greased decanters on SBR tanks
- Greased screening unit
- Influent screening unit hosed and cleaned daily
- Annual crane inspections
- Installed 3 new WAS pumps
- Installed new DO probe on SBR#4
- Installed AUMA air valve actuator on SBR#1
- Installed new level sensor on SBR#1
- Installed new belts on blower building ventilation system
- Replaced two burnt out bulbs on the UV unit
- Cleaned out UV basin
- Clean out #3 and #4 digester weirs and troughs
- Monthly safety inspections completed for the month
- Checked oil and belts on blowers daily, grease weekly
- Centrifuge building floor hosed
- Greased centrifuge
- Inspect State School weir box
- Control building floors swept and mopped weekly
- Cut grass

Financial Update

Maintenance Expenditures

Tractor Supply	\$70.42	Adaptor for DO probe/cable ties/cut off wheels
Hach	\$2,298.77	DO probe
Grainger	\$1,312.77	Level sensor/solenoid rebuild kits
Long Barn	\$43.78	Air valve actuator hardware
Amazon	\$202.32	Small Business Cordless phones/answering machine
USA Blue Book	\$298.61	Process water float/ effluent sampler

Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,000	\$6,197.86	\$4,226.67	\$1,971.19
Sludge Cap	\$80,000	\$31,827.73	\$1,960	\$29,867.73

Health & Safety

There were no accidents in the month of August

Personnel have worked 1,674 days (4 years 8 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- EDMR submissions
- Hoist/Overhead safety

Personnel

Name	Title	Operator Certifications
Sharon Burkett	Lead Operator	PA Class A, E, Wastewater Subclass 1,2,3,4,5
Kyle Smiley	Operator II	PA Class A, E, Water Subclass 1,10,11,12
Randy Lauer	Operator II	PA Class A, E, Wastewater Subclass 1,2,3,4
Tony Perott	Operator I	PA Class C, E, Water Subclass 1,6,7,8,12
Shawn Jones	Operator in Training	Training for PA DEP exam
Luke Byrne	Project Manager	PA Class A, E, Water Subclass 1,7,8,10,11,12 PA Class A, E, Wastewater