

Ebensburg Municipal Authority

May monthly report for WWTP



June 23rd, 2025

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the May 2025 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 May, the Ebensburg wastewater plant treated 31,425,900 gallons of wastewater. This equates to an average of 1,013,739 gallons per day.

The centrifuge was operated semiweekly this month, and 15.1 tons of dry sludge was sent to the landfill.

During May, staff thoroughly inspected the centrifuge for long term reliability. A new belt was installed on the drive motor of the centrifuge and staff is working with a local electric motor company to check the bearings of the motor. One additional item was discovered that should be addressed. The centrifuge conveyor liner is wearing thin in spots. The liner is made of a strong plastic that conforms to the inside of the conveyor trough. The liner is designed to wear overtime to protect the stainless-steel trough which is the outer housing of the conveyor. We have contacted Centrisys for quote and are looking into alternative options for the repair.

Bank A of the UV unit was raised, and three bulbs were changed out.

Several times during the month the Polymer feed system shut off during the operation of the centrifuge. Staff relaced an electric solenoid for the polymer feed system and a start/stop relay in the PLC cabinet. After replacement of those items, the polymer feed system has been working properly.

A new pH probe has been put into service in the WWTP lab. Staff experienced issues with the old probe meeting acceptable calibration parameters.

A new electrical control board was installed on the Influent auto sampler. The sampler was struggling to regulate the temperature in the sampler. After working with the manufacture, a new board was purchased and installed fixing the problems.

The sewer lift stations were inspected regularly throughout the month. The pump runtime hours were documented, and generators were exercised. The wet wells were pumped down and flanges/seats were inspected for leaks. No leaks were discovered. The floats/transducers at all three lift stations were also found to be working properly. Basket screeners were pulled and cleaned out. The lift station buildings were swept and cleaned.

On the Radar

Screening unit repairs

Grit blower repairs

SCADA programming

Process water cover

Operations

Compliance:

- Effluent pH alkalinity, and dissolved oxygen are analyzed 7 days a week.
- SBR tank testing is performed for process control purposes on Monday, Wednesday, and Friday of each week. Analysis completed is Settleability, and Mixed Liquor Suspended Solids (MLSS) on all four SBR units.
- 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.
- 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.
- All samples collected during May were in compliance.

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/optimization
- Record/adjust process SBR phases
- 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 optimized
- Influent and Effluent samplers checked daily
- UV operational checks

Maintenance & Repair

- Inframark staff completed 121 work orders in the month of May
- Greased decanters on SBR tanks
- Greased screening unit
- Influent screening unit hosed and cleaned daily
- Trojan UV channel cleaning
- Centrifuge belt replacement
- Screening unit channel clean out
- Process water maintenance
- Headworks bypass channel cleaning
- UV bulb replacement
- Centrifuge solenoid replacement
- Grit removal inspections
- Cleaned wet well pump floats
- Cleaned UV basin and bulb covers
- 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

Financial Update

Maintenance Expenditures

The Long Barn	\$35.78	SBR WAS pump line repairs
Exxon	\$19.00	Skid steer fuel
Amazon	\$165.78	Solenoid rebuild kit
LB Water	\$121.37	SBR WAS line repairs
eBay	\$347.80	Centrifuge relay/PLC card
USA Bluebook	\$506.10	Polymer pump head
BLT*DURAWEAR	\$285.99	Winch bracket for mixers/pumps
Northern tool	\$423.98	Electric winch for mixers/pumps

Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,950.84	\$17,210.61	\$1,905.80	\$15,304.81
Sludge Cap	\$83,042.76	\$39,038.58	\$6,667.00	\$32,371.58
Chemical Cap	\$23,251.92	\$16,955.28	\$3,054.44	\$13,900.84

Health & Safety

There were no accidents in the month of May

Personnel have worked 1,947 days (5 years 5 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- Power outage start up SOP

Personnel

Name	Title	Operator Certifications
Randy Lauer	Operator II	PA Class A, E, Wastewater Subclass 1,2,3,4
Kyle Smiley	Operator II	PA Class A, E, Water Subclass 1,10,11,12
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
Cody Williams	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