

# Ebensburg Municipal Authority

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June monthly report for WWTP



July 22<sup>nd</sup>, 2024

Ebensburg Borough  
300 West High Street  
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the June 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

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## Executive Summary

During the month of June, the Ebensburg wastewater plant treated 14,597,800 million gallons of wastewater. This equates to an average of 486,600 gallons per day.

The centrifuge was operated twice a week on average and 9.114 tons of dry sludge was sent to the landfill.

During June, 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 WAS pumps. We have ordered three new pumps to replace the worn pumps and plan to install those in July. Three of the four pumps were original to the 2004 upgrade.

Staff replaced two faulty level sensors in the SBR tanks. One sensor was failing to communicate to SCADA properly, and the other sensor was found to be inaccurate.

During June staff cleaned out the wet well holding tank at the facility. This holding tank has two pumps capable of pumping activated sludge and centrifuge centrate back to the headworks. Pump #2 is currently locked out due to a broken conduit and exposed bare wires. Dodson Electric is working on replacing the conduit and wiring to allow us to determine if the pump is functional.

Centrifuge sludge pumps were opened, cleaned, and inspected. Pump #1 was rebuilt in 2023 and is in good condition. Pump #2 is aged and shows signs of wear but is functional.

Staff replaced the peristaltic hose on the effluent auto sampler after discovering a pin hole leak.

The sewer lift stations were inspected regularly throughout the month. The pump runtime hours were documented, and generators were exercised. The lift station basket screeners were cleaned at all locations. Fence repairs have been made at both Industrial Park lift stations. Cleared brush inside fence and around buildings. All onsite generator fuel sources were filled for the quarter as needed.

## On the Radar

Centrifuge flow meter

Screening unit repairs

SBR air valve actuators

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## 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 28<sup>th</sup> 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 97 work orders in the month of June
- Greased decanters on SBR tanks
- Greased screening unit
- Influent screening unit hosed and cleaned daily
- Replaced SBR level sensors
- Inspected centrifuge sludge pumps
- Cleaned Wet Well
- Pulled and inspected WAS pumps
- Repaired auto sampler
- Cleaned SBR#1
- Cleaned out process water chamber
- Clean out #3 and #4 digester weirs and troughs
- Monthly safety inspections completed for the month
- Hosed and cleaned U.V. trough, bulbs, sensors
- 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

The Meter Guy	\$500.00	Annual meter calibration
Ace Hardware	\$82.18	Process water screen anchors/hardware
LB Water	\$1,267.52	Centrifuge pump check valve rebuild kit
Long Barn	\$49.37	PVC fittings
All American Fire Equipment	\$200.87	Spray nozzle/fittings for trash pump
Tractor supply	\$158.94	Fittings for pumps/ Steam cleaner hose
Industrial chem	\$145.61	Degreaser
Sheetz	\$78.87	Fuel for trash pump
Walmart	\$95.09	SBR nets
Maryland Biochemic	\$501.78	Process water tank cleaning chemical
Hach	\$309.00	DO sensor caps
Grainger	\$1,433.26	SBR level sensors

Exxon	\$38.00	Fuel for trash pump
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### Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,000	\$12,637.89	\$4,860.49	\$7,777.40
Sludge Cap	\$80,000	\$49,358.61	\$11,785.62	\$37,572.99

## Health & Safety

There were no accidents in the month of June. Personnel have worked 1,612 days (4 years 6 months) without an accident/injury.

### Inframark Training and Presentations

- Weekly tailgate meetings
- Centrifuge SOP
- SCADA alarm setpoints and dialer responses

## 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