

Ebensburg Municipal Authority

March monthly report for WWTP



April 22, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the March 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 March, the Ebensburg wastewater plant treated 22,618,500 million gallons of wastewater. This equates to an average of 729,629 gallons per day.

All testing and operational requirements were met for the month of March.

The centrifuge was operated twice a week on average and 13.143 tons of dry sludge was sent to the landfill.

On March 6th staff replaced the failing UV panel touch screen. This is the third panel view screen that has failed on this unit over the past few years. This item was covered under warranty. Staff also replaced to leaking hydraulic hoses on the UV system during the month.

Recently we have been making efforts to clean one tank out each month to reduce solids carry over from tank to tank. During March staff cleaned the outside overflow chambers of both #3 and #4 digesters The UV and SBR tanks are on the radar for summertime cleaning.

Inframark has received a scrap metal dumpster from cresson steel, and we have been working towards cleaning up the WWTP. We want to make room for current inventory and recycle antiquated items that no longer exist in the process.

Repairs were made on the east wet well access hatches. These lids were found to be unsafe when opened and the possibility of lid falling into the wet well existed. Hinges were replaced, and props installed to ensure the lid locked in place when opened.

During March Inframark cleaned the rags and debris from the basket screeners at the pumping stations. Three new pressure gauges were installed at the Emerald estates pumping stations. The old gauges were not functioning. Staff also fixed a wiring issue with the louvers at the Industrial Park Caterpillar pumping station.

The automatic transfer switch for Emerald estates has been installed and a full start up was completed on March 14th. The new switch is operating properly, and the generator is now exercising every Monday at 8 am. The dialer at Emerald estates has also been equipped with a new battery back up system replacing the old expired system.

On the Radar

Level sensors for SBR tanks

UV chamber and SBR cleaning

Centrifuge flow meter

Screening unit bearings and brushes

Process water duckweed issues

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 samples are collected
- Screening unit inspections
- Grit removal process inspections
- Record/adjust process SBR phases
- Utility water pumping
- Operations of WAS pumps vs settleability
- Sludge pumped up to digesters for thickening
- Decant digesters for thickening
- Process control lab work completed daily
- Operated the centrifuge
- 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 113 work orders in the month of March
- Greased decaners on SBR tanks
- Greased screening unit
- Replaced UV hydraulic hoses
- Replaced temperature gauge on SBR #1
- Installed new hinges on east wet well hatch
- Replaced panel view screen on UV unit
- Replaced rotted deck boards on UV platform
- Monthly safety inspections completed for the month
- Hosed and cleaned U.V. trough, bulbs, sensors
- Influent screening unit hosed and cleaned daily
- Checked oil and belts on blowers daily, grease weekly
- Centrifuge building floor hosed
- Greased centrifuge
- Snow removal/salting
- Inspect State School weir box
- Control building floors swept and mopped weekly

Financial Update

Maintenance Expenditures

Foster Wineland	\$192.33	UV hoses
State Chemic	\$158.38	Degreaser
Scanlan Supply	\$78.75	Electrical meter clamp
Applied	\$261.77	Bearings for brushes
Long Barn	\$104.31	Wash sink plumbing
SP WIHA	\$225.24	Insulated electrical items
Automation Direct	\$126.14	Heater for UV PLC
Best Materials	\$155.71	Props rods for doors
Amazon	\$520.86	Blower repair items (wedges/repair kit)
Grainger	\$261.48	SBR thermometer
GP Portable Johns	\$510.00	Grit chamber pumping
Custom Controls Unlimited	\$600.00	SCADA Programing
NAPA	\$99.62	Grating texture

Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,000	\$19,896.06	\$3,294.59	\$16,601.47
Sludge	\$80,000	\$65,732.10	\$15,554.81	\$50,177.29

Health & Safety

There were no accidents in the month of March. Personnel have worked 1,521 days (4 years 3 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- Settleability SOP

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
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 PA Class A, E, Wastewater