

Ebensburg Municipal Authority

February monthly report for WWTP



March 25, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the February 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 February, the Ebensburg wastewater plant treated 17,318,100 million gallons of wastewater. This equates to an average of 597,176 gallons per day.

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

The centrifuge was operated twice a week on average and 12.453 tons of dry sludge was sent to the landfill.

A disconnect was installed for SBR #2 - mixer #1. Early in February staff received an alarm SBR#2-mixer #1 motor fault. Further investigations discovered a burnt up disconnect switch and damaged wires. All necessary repairs were made, and the mixer has been running well.

The #2 grit blower has been removed from operation and is being rebuilt onsite.

Repairs were made to the suction side of the process water pumps to prevent cavitation. These repairs have resolved the issues staff was dealing with and now allows for continuous operation of the process water. A laundry sink was installed near the process water pumps to provide a remote area to clean the screener baskets. A new float ball switch was also installed replacing the old failing switch.

Installed new pressure sensor on the centrifuge sludge feed pump. The new pump is operating three times more efficient than the old pump.

Staff repaired a blown fuse on DO probe SC100 controller. Dodson electric helped trace the wiring from SBR #4 into the building to determine the power source for the SC100.

During February Inframark cleaned the rags and debris from the basket screeners at the pumping stations. Photographed all assets at the pumping stations and entered them into our computerized maintenance management software (CMMS). This will allow us to track repairs, generate work orders, and provide anticipated funding needed to keep these pumping stations reliable.

The automatic transfer switch for Emerald estates has been installed and a full start up is scheduled for March 14th.

On the Radar

Level sensors for SBR tanks

UV chamber cleaning

Centrifuge flow meter

Screening unit bearings

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 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 101 work orders in the month of February
- Greased decaners on SBR tanks
- Greased screening unit
- Installed disconnect on SBR#2
- Replaced blown fuse on SC100
- Repaired process water line and installed new float switch
- Installed pressure sensor on centrifuge pump line
- Installed wash sink
- Replaced four DO probe caps and calibrated
- Installing grit blower seal kit
- 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

Ace Hardware	\$72.66	Wash sink plumbing
Napa	\$36.01	UV oil filter
Ram Industrial	\$774.39	Flight sensors for process water
AutoZone	\$37.09	Micrometer
eBay	\$140.62	Disconnect for SBR
Applied	\$417.47	Bearings for screener
Long Barn	\$184.22	Wash sink for utility filter cleaning
Sheetz	\$35.95	Diesel for pump
Battery Guy	\$21.41	Centrifuge battery
Hach	\$1098.76	DO sensor caps
Advance Auto	\$66.76	Gasket sealer for screw pumps
Harbor Freight	\$170.60	Grit pump repairs
Grainger	\$334.35	Grit pump repairs
LB Water	\$585.07	Grit pump repairs
Uni-Mart	\$13.44	Fuel for pump

Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,000	\$23,884.86	\$3,988.80	\$19,896.06
Sludge	\$80,000	\$72,878.31	\$7,146.21	\$65,732.10

Health & Safety

There were no accidents in the month of February. Personnel have worked 1,490 days (4 years 2 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- Emergency procedures during chemical spills
- Understanding Safety Data Sheets

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