

Ebensburg Municipal Authority

January monthly report for WWTP



February 26, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the January 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 January, the Ebensburg wastewater plant treated 29,982,300 million gallons of wastewater. This equates to an average of 967,170 gallons per day.

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

The centrifuge was operated twice a week on average and 11.117 tons of dry sludge was sent to the landfill.

During the month, staff noticed a lack of grit accumulation in the dumpster. After investigating further, we discovered the grit classifier was full of sludge and no grit. After cleaning out the grit classifier, we discovered the grit lift pump was not working properly. Further investigations led to the discovery of a damaged grit lift pump. Staff pulled the pump, cleaned out the grit pit, repaired the pump, and reinstalled the pump. Currently the grit removal process is working well.

While operating the centrifuge staff noticed the bearing temperatures getting higher than normal. Staff cleaned out the auto greaser, flushed the lines and refilled with new grease. This resolved the issues and the bearing temperatures have returned to normal operating temps.

Inframark along with RAM Industrial rebuilt the failing screw pump in the basement of the wastewater treatment facility. The stator, rotor, and pressure valve were replaced in this repair. This pump is used to move sludge through multiple processes at the plant including the centrifuge. The facility was down to one working pump and needed to expedite this repair due to the importance of limited ability to move sludge.

While cleaning the screening unit in the headworks building, staff discovered two bearings in the screening unit were hanging up due to wear. New bearings were purchased and plans are in place to repair.

During January Inframark cleaned the rags and debris from the basket screeners at the Industrial park marine center location and Emerald estates location.

A project has been approved for the replacement of both discharge elbows, slide rails, and machine/balance pump impellers at the Industrial Park sewer lift station. We are still waiting on parts for this job to begin.

The automatic transfer switch for Emerald estates has arrived and Inframark is working with ASCO and Dodson to schedule a date for installation and startup.

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 one Influent Total Suspended Solids (TSS), two effluent Total Suspended Solids (TSS). One Influent Biological Oxygen Demand (BOD), one effluent Carbonaceous Biological Oxygen Demand (CBOD) on those days.
- 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
- Compliance samples collected
- Screening unit inspections
- Grit removal process inspections
- Record/adjust process phases
- Utility water pumping
- Operations of WAS pumps vs Stability
- Decant digesters for thickening
- Process control lab work completed daily
- Operated the centrifuge
- Optimize polymer feed system
- Sludge dumpster preparation
- Sludge pumped up to digesters for thickening
- 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 170 work orders in the month of January
- Greased decanters on SBR tanks
- Greased screening unit
- Garage door repair
- Inlet filter replacement grit blower B200
- Grit airlift pump repairs
- Cleaned grit pit
- Process water strainer repairs
- Repaired conduit support influent valve control
- 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
- Case tractor maintenance
- Snow removal/salting
- Inspect State School weir box
- Control building floors swept and mopped weekly

Financial Update

Maintenance Expenditures

Ace Hardware	\$459.33	Tubing for blowers and samplers, grease guns
Advanced auto	\$236.62	Battery charger, degreasers
Tractor supply	\$151.43	Stainless steel hardware, wire wheels, cleaner solvent
LB Water	\$77.45	Grit repair plumbing supplies
Foster Wineland	\$190.31	UV Hydraulic hose

Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,000	\$25,000	\$1,115.14	\$23,884.86
Sludge	\$80,000	\$80,000	\$7,121.69	\$72,878.31

Health & Safety

There were no accidents in the month of January. Personnel have worked 1,461 days (4 years 1 month) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- Cyber security

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	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