

Ebensburg Municipal Authority

November monthly report for WWTP



December 16th, 2024

Ebensburg Borough
300 West High Street
Ebensburg, PA 15931

Dear Authority Members,

Inframark is pleased to submit the November 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 November, the Ebensburg wastewater plant treated 19.6 million gallons of wastewater. This equates to an average of 652,200 gallons per day.

The centrifuge was operated weekly this month, and 8.7 tons of dry sludge was sent to the landfill.

During the month, staff repaired a leak on the process water line. An old yard hydrant was broken and began leaking badly. The old yard hydrant was excavated and terminated underground.

Staff has began working on winter weather preparations around the facility. Summer equipment has been moved to the blower building and winter equipment has been brought up to the main garage.

On November 21st McCarl's HVAC performed annual cleaning and maintenance to the oil boiler and several electric unit heaters at the WWTP. One of the boilers circulating pumps is no longer working and beyond repairs due to age. There were also several additional items of concern related to the old heating system as well. A project is being quoted to install a new circulating pump, new air separator, and replace several deteriorated pipes on the heating system local to circulating pump.

Staff has made a few programming changes to the grit removal system at the WWTP. Three auger cycles per day have been added to the sequence with hopes of removing more grit daily. So far, the results have been successful, and staff is observing more grit removal daily.

The 1995 case loader that is used for moving the sludge dumpster and other heavy items around the facility has began spraying hydraulic oil out of the hydraulic pump. The leak is so bad that staff can no longer use the machine due to the amount of oil that is leaking out. The antiquated machine has several other issues that need addressing but we have been limping it along until now. Inframark is working with the borough manager and publics work director to see if a newer machine or one the borough may have can be used at the plant to meet our weekly machine needs.

Dodson Electric has ordered two new explosion proof unit heaters to be installed in the headworks building. ETA on those units was November 7th but we have been informed the new estimated ship date will be January 2nd. Once received they will be installed promptly.

The sewer lift stations were inspected regularly throughout the month. The pump runtime hours were documented, and generators were exercised. Basket screeners were pulled and cleaned out. Heaters and exhaust fans have been adjusted for winter weather preparation. Several trees/limbs were cut and removed from Emerald estates lane pump road. Marker flags were placed for winter plowing.

On the Radar

Screening unit repairs

Heating units in headworks

Boiler repairs

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.
- Stormwater inspections

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
- 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

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- 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 November
- Greased decanters on SBR tanks
- Greased screening unit
- Influent screening unit hosed and cleaned daily
- LOTO on wet well pump
- Cleaned sludge pump access hatches
- Centrifuge garage door issues
- Polymer pump head cracked and replaced
- Process water lawn hydrant repair
- Headworks bypass channel cleaning
- Grit removal oil level inspections
- Cleaned wet well pump floats
- Cleaned out UV basin
- 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

Dodson electric	\$20.07	Outside light
LB water	\$180.26	Centrifuge meter piping

Caps

Caps For WWTP	Contract Total per Year	Previous Balance	Total Spent this month	Remaining Balance
Maintenance Cap	\$25,000	\$755.61	\$200.33	\$555.28
Sludge Cap	\$80,000	\$9,263.33	\$16,489.66	-\$7,226.33

Health & Safety

There were no accidents in the month of November

Personnel have worked 1,765 days (4 years 11 months) without an accident/injury.

Inframark Training and Presentations

- Weekly tailgate meetings
- Winter weather SOP
- LOTO SOP
- Dissolved Oxygen meter calibration

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
Luke Byrne	Project Manager	PA Class A, E, Water Subclass 1,7,8,10,11,12 PA Class A, E, Wastewater