



October 19, 2020

**Via Electronic Mail Delivery**

Mr. Darrin Gordon  
General Manager  
Lewes Board of Public Works  
107 Franklin Avenue  
Lewes, DE 19958

**Subject: September 2020 Monthly Report to BPW**

Dear Mr. Gordon:

White Marsh Environmental Systems, Inc. (WMES) is pleased to submit the September 2020 monthly report. The report contains a summary of the operations and maintenance activities at the BPW lift stations and wastewater treatment plant by WMES for the month of September, 2020. In addition, the report contains the following documents:

1. Corrective Action Items Summary – This will be submitted each month until all items have been completed.

If you have any questions, please feel free to contact me at [pperis@middlesexwater.com](mailto:pperis@middlesexwater.com).

Sincerely,

*Paul S. Peris*

Paul S. Peris  
Director of Production and Maintenance  
White Marsh Environmental Systems, Inc.

September 2020

I. Effluent Quality and Compliance

The data below confirms that the effluent meets all permit requirements.

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	2.74 mg/L	.68 mg/L	<2.40 mg/L	.78 mg/L	<1.0 Col.
Maximum:	2.74 mg/L	.68 mg/L	<2.40 mg/L	1.40 mg/L	<1.0 Col.
Permit Limit:	8 mg/L average	2 mg/L average	15 mg/L average	15 mg/L average	10 Col. average
Maximum Permit Limit	N/A	N/A	23 mg/L MAX	23 mg/L MAX	104 Col. MAX

- Maximum daily flow – 1.69 MGD
- Monthly average flow – .874 MGD

II. Activities – September 2020

Lift Stations Activities

- All Lift Stations monitored daily with Point Watch system.
- WMES personnel conducted bi-monthly lift station inspections. No deficiencies noted.
- 9/1/20 - BPW staff pumped down lift station #8 for visual inspection prior to installation of flapper assembly by Gorman Rupp technician.
- 9/3/20 - Gorman Rupp installed flapper assembly on pump #1 at lift station #8.
- 9/4/20 - BPW staff pumped down and cleaned lift station #10. No issues noted.
- 9/24/20 - WMES staff installed Air Release Valves on the pumps at lift station #8.

## **Plant Activities**

- 9/1/20 - WMES staff replaced belts on exhaust fans in process building.  
Breakwater Construction & Environmental replaced plug valve in headworks building.
- 9/2/20 - WMES staff replaced the macerator transducer.
- 9/4/20 - Back up EQ high level alarm installed by Breakwater Construction & Environmental.
- 9/8/20 - Kuhn Construction on site for construction of new drying beds.  
WMES staff replaced second floor blower in the headworks building.
- 9/10/20 - WMES staff replaced process and membrane blower motor with a spare.
- 9/11/20 - DNREC performed annual inspection. No deficiencies noted.  
CDI hauled 17,000 gallons sludge from digester.  
Hills Electric picked up the blower motor for repair.
- 9/17/20 – Recovery clean completed on train #1.
- 9/25/20 - Recovery clean completed on train #2  
Suez accessed the Zenon Control panel remotely with GMB on-site to investigate communication gaps to the Insight web system.  
Josh Gritton from BPW with Keystone Engineering performed an on-site assessment of the Remote Terminal Unit's and Master Terminal Unit.
- 9/28/20 – WMES installed bubble trap on Train #2. The bubble trap is intended to remove air bubbles causing false readings and alarms for membrane turbidity.
- 9/29/20 – WMES installed bubble traps on Trains #1, 3, 4.  
WMES performed recovery clean on Train #3.

## **SAFETY INFORMATION**

- No work place injuries reported. Days without workplace injury: 283
- Performed monthly PPE inspection. No deficiencies noted.
- Performed monthly eyewash station and fire extinguisher inspections. No deficiencies noted.

### **Additional Information**

- Bruce Patrick and Paul Peris from WMES attended the September 2020 Lewes BPW monthly meeting remotely via Zoom.
- As requested by BPW, WMES is using USA Bluebook brand Formula 52 odor control product in the digester, drying beds and headworks daily.

### **Open Items**

No open items at this time.

### **Attachments**

- September 2020 Influent and Effluent Report
- September 2020 TMP chart for Kubota Digester Membranes
- September 2020 Influent Flow vs. Rainfall Chart
- September 2020 Suez Bi-Monthly Reports
- September 2020 MLSS Chart
- September 2020 Sussex County pumpage numbers to Lift Station #4
- September 2020 E-DMR
- September 2020 Nutrient Offset Report
- 2020 Compliance Data Charts (New)
- Corrective Action Items Summary