

July 14, 2017

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

Subject: Monthly Report, June 2017

Dear Darrin:

At the Lewes wastewater plant, it has been a steady month of operations. Work to complete chemical cleaning of all four membrane trains has been completed to maintain efficiency.

Attached is a summary of the Operations and Maintenance activities at the Board's lift stations and wastewater treatment plant for the month of June 2017. Please direct any questions to my attention. Thank you.

Sincerely,

Mike Evans
District Manager
Tidewater Utilities, Inc.

I. Effluent Quality and Compliance

- Discharge Monitoring Report submitted to DNREC with 100% compliance for the month.

June 2017 Effluent Testing

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	5.37 mg/L	1.55 mg/L	<2.40 mg/L	<0.50 mg/L	<1.0 Col.
Maximum:	N/A	N/A	<2.40 mg/L	<0.50 mg/L	1.0 Col.
Permit Limit:	8 mg /L average	2 mg /L average	15 mg/L average 23 mg/L MAX	15 mg/L average 23 mg/L MAX	10 Col. average

Maximum daily flow 0.7882 MGD
Monthly average 0.6829 MGD

II. Activities

STATION MAINTENANCE PERFORMED

- Pump station #11 called out; control breaker tripped. Tidewater maintenance removed and replaced the bad breaker.
- Pump station #14 called out all alarms; replaced bad float.

MAINTENANCE PERFORMED

- George and Sons hauled out 105.59 wet tons of biosolids.
- Tidewater maintenance worked on process blowers; a fuse was replaced on blower A.
- BPW installed an air release valve to the effluent pipe to improve flow.
- Fixed E.Q. float problem to avoid tank overflow and rewired the E.Q. level transducer for better contact.
- Conducted a Hypochlorite recovery clean on train #3 and #4 to remove organic build up.
- Conducted a Citric acid recovery clean on Train #3 and #4 to remove inorganic buildup.
- Repaired chemical leak on Alum line.
- Replaced all process blower air filters.
- Scheduled preventative maintenance being performed.
- To maintain freshness, aeration was increased in the digester to compensate for D.O. lost from summer temperatures.
- Secondary return activated sludge pump #2 tripped and was reset. It is being monitored for any changes.

MAINTENANCE PERFORMED

- Two call outs for train #1 Permeate Low Flow alarm. Reset train.
- Call out on Process Blower B Low Flow alarm. Reset blower. Electrical issues associated with this are being investigated.

SAFETY INFORMATION

No work place injuries.

Annual Fire Extinguisher Inspection conducted.

COMMENTS

- The DMRQA #37 study was completed on the lab's new pH meter and submitted.

PRELIMINARY BOARD DOCUMENT