



STATUS REPORT

Progress and Improvements

DPW BUREAU WATER AND WASTEWATER, Patapsco WTPP

Date 9/16/22

Parameter	Week ending 9/2/22	Week ending 9/9/22	Weekly Permit Limit	Monthly Permit Limits	Weekly Limits Met?	Monthly Limits Met?
Total Suspended Solids (TSS)	8 mg/L	10 mg/L	45mg/L	30mg/L	Yes	Yes*
Biochemical Oxygen Demand (BOD)	5 mg/L	17 mg/L	45mg/L	30mg/L	Yes	Yes*
Total Phosphorus (TP)	0.89 mg/L	1.0 mg/L	3.0mg/L	2.0mg/L	Yes	Yes*
Ammonia (NH ₃)	6 mg/L	5.1 mg/L	N/A	6.3mg/L	N/A	Yes*
<i>Enterococci</i>	6 MPN/100 mls	5 MPN/100 mls	N/A	35 MPN/100 mls	N/A	Yes*

N/A= Not Applicable MPN= Most Probable Number

*Patapsco Wastewater Treatment Plan (WWTP) month-to-date limits are trending within permit requirements. We will continue to await further results throughout the month to confirm compliance.

Personnel Updates

This week 3 maintenance staff and 3 Operations Supervisor II positions have been hired. This has increased our capacity for supervision at the plant.

Training and Education Updates

Additional maintenance training support is underway with National Technical Training (NTT), a subsidiary of ECPI University. The City has entered into an agreement with NTT Training to provide ongoing classes for electrical and maintenance craft technicians. This week NTT held classes on medium voltage electric. In October, the course schedule will focus on the Basics of Industrial Electricity and Troubleshooting Electric Motors. These trainings will be offered at both Back River and Patapsco Wastewater Treatment Plant.

Maintenance Updates

Since our last progress report, over 160 Preventative Maintenance Work Orders have been completed at Patapsco.

Plant staff and contractors continue to focus on repairs to the last two Oxygen Reactors. This system, coupled with the Liquid Oxygen (LOX) plant, provide biological oxygen demand (BOD) and Ammonia removal to facilitate the nitrification process. The current repairs will provide necessary redundancy to the system.

Gravity Sludge Thickener (GST) #4 repairs are underway. Completion of this work is anticipated in January 2023.

The Enhanced Nutrient Removal facilities are all fully in service for Nitrogen removal.

Until repairs can be completed for the scum and Fats, Oils, and Grease (FOG) removal at the Primary Settling Tanks (PSTs), plant operations is establishing a pumping system directly to dumpsters that will mix with screenings debris for ultimate disposal at the landfill.

Summary

As we continue, we are confident in a clear path forward to compliance at the Patapsco Wastewater Treatment Plant.