



## STATUS REPORT

# Progress and Improvements

DPW BUREAU/OFFICE Patapsco WTPP

Date 12/23/2022

| Parameter                       | Week ending 12/12/22 | Week ending 12/19/22 | Weekly Permit Limit | Monthly Permit Limits | Weekly Limits Met? | Monthly Limits Met? |
|---------------------------------|----------------------|----------------------|---------------------|-----------------------|--------------------|---------------------|
| Total Suspended Solids (TSS)    | 4 mg/L               | XX mg/L              | 45mg/L              | 30mg/L                | Yes                | Yes                 |
| Biochemical Oxygen Demand (BOD) | 9 mg/L               | XX mg/L              | 45mg/L              | 30mg/L                | Yes                | Yes                 |
| Total Phosphorus (TP)           | .18 mg/L             | XX mg/L              | 3.0mg/L             | 2.0mg/L               | Yes                | Yes                 |
| Ammonia (NH <sub>3</sub> )      | XX mg/L              | XX mg/L              | N/A                 | N/A                   | N/A                | N/A                 |
| <i>Enterococci</i>              | 4 MPN/100 mls        | XX MPN/100 mls       | N/A                 | 35 MPN/100 mls        | N/A                | Yes                 |

N/A= Not Applicable MPN= Most Probable Number XX=Awaiting Official Results

Note: The Ammonia permit requirement is only seasonal from 5/1-10/31 each year. No limit otherwise)

## Maintenance Updates

Maintenance staff continues to focus on the preventive maintenance (PM) of the process areas.

Repairs to Gravity Sludge Thickener (GST) #4 began 11/29/22. Completion of this repair will be the first quarter of 2023. This will provide further redundancy and sludge storage capacity to aid in biosolids handling.

Two fine screens will be picked up in December for repair and replace with coarse screens in order to be used during high flows and reduce any flow restriction. Upon return of these two screens (tentatively February 2022), the last fine screen will be removed for rehabilitation. This will then account for all 8 screens receiving rehabilitation. Two new conveyors and compactors have been ordered and once the Purchase Order is issued, the timeline for delivery is approximately 6 months. The current conveyors and compactors continue to be operational but are coming to the end of their useful life so replacements are needed.

The Industrial Plant Influent (IPI) has had the motors to both screens repaired. There is a gate stem repair and the City is awaiting a quote from Rotork to address.

Four High Purity Reactors Aerators will be delivered to site on December 29,2022.

The plant has succeeded in removing the media from the mud wells within the Biological Aerated Filters (BAF) utilizing the overflow piping and allowing for capture upstream of the BAF.

## **Summary**

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As we continue, we are confident in a clear path forward to compliance at the Patapsco Wastewater Treatment Plant. The Patapsco is an asset to the greater Baltimore Region and DPW is excited about its path forward to sustained compliance.