



## **King County**

Department of Natural Resources and Parks  
Wastewater Treatment Division  
West Point Treatment Plant, WTP-NR-0100  
1400 Discovery Park Blvd  
Seattle, WA 98199-1044

June 10, 2024

TO: Rebecca Singer, WTD Operations Manager

FROM: Process Control Staff

SUBJECT: West Point Treatment Plant Performance Report – May 2024

The West Point Treatment Plant (West Point) Outfall 001 met all effluent discharge requirements in May 2024. Effluent cBOD averaged < 25 mg/L and TSS averaged < 30 mg/L. Effluent pH was maintained between 6.0 and 9.0.

West Point's total flow averaged 75.65 million gallons per day (MGD), the average May flow for the previous five years (77.61 MGD).

Seattle-Tacoma International Airport (SeaTac) reported 1.54 inches of rainfall, the historical average rainfall for May is 1.88 inches.

### **Primary Treatment**

Primary sedimentation operated with ten sedimentation tanks in service at the beginning of the month, started to take tanks out of service for Preventive Maintenance (PM) starting on May 7 and ended up with eight tanks in service by the end of the month. Primary solids removal for the month was calculated to be 58.54%. The recycle streams continued to be temporarily routed to the headworks.

### **Secondary Treatment**

The secondary process operated with six aeration trains and eleven clarifiers for the entire month. The secondary sludge age averaged 2.62 days for the month. Final effluent quality was good in May with a monthly average of 6 mg/L of TSS and 2 MPN/100 mL fecal coliform geomean for the month. There were no secondary diversion events in May.

Key Measures

Volume Treated	2345 Million Gallons
Permit Compliance	0 Exceptions
Biosolids	3830 Wet Tons Hauled
	1057 Dry Tons Hauled
	27.60% Cake Total Solids

Permit Compliance Summary – May 2024

Flow (mgd)	cBOD (mg/l)	TSS (mg/l)	cBOD (% Removal)	TSS (% Removal)	Fecal Coliforms (counts/100 ml)	Chlorine Residual (µg/l)
	Plant/Permit	Plant/Permit	Plant/Permit	Plant/Permit	Plant/Permit	Plant/Permit
75.65	5/25	6/30	97/80	98/80	2/200	92/139

West Point’s NPDES permit requires 85% removal of cBOD and TSS during the dry season months of May through October. The Permit also sets effluent concentration limits of 25 mg/l for cBOD and 30 mg/l for TSS, or 15% of influent values during the dry season months, whichever is more stringent. For May 2024, the effluent concentration limits were 25 mg/l for cBOD and 30 mg/l for TSS.

Process Control

Total plant flow for the month was 2345.19 million gallons. Influent and effluent cBOD concentrations averaged 194 mg/l and 5 mg/l, respectively (97% removal); influent and effluent TSS averaged 266 mg/l and 6 mg/l, respectively (98% removal).

There were no Secondary Diversions in May.