



## **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

July 9, 2019

TO: Robert Waddle, WTD Operations Manager

FROM: Process Control Staff

SUBJECT: West Point Treatment Plant Performance Report – June 2019

All discharge requirements were met in June at the West Point Wastewater Treatment Plant. Effluent cBOD averaged < 25 mg/L and TSS averaged < 30 mg/L. Effluent pH was maintained between 6.0 and 9.0.

Total Plant flow at West Point averaged 64.82 MGD, 5.79 MGD below the average June flow for the previous five years (70.61 MGD). North end flows were sent to South Plant and Brightwater via Woodinville and North Creek.

Seattle had below average precipitation in June. West Point recorded a total of 0.73 inches of precipitation for the month. There was measureable precipitation on eight days during the month, with most of the rainfall occurring June 18 through June 21 (0.54 inches total). Sea-Tac recorded 0.90 inches of precipitation, 0.67 inches below the normal June rainfall of 1.57 inches. The National Weather Service Office at Sand Point recorded 0.78 inches of precipitation, 0.85 inches below the normal 1.63 inches.

### Primary Treatment

Primary treatment operated with 9 tanks in service to start the month. On June 10, tanks 5E and 6E were returned to service, but were removed from service again to investigate leaks in the tanks sidewalls. On June 14, tank 1E was taken out of service for annual maintenance. Tanks 4E and 5E were returned to service on June 21. Tank 6E was returned to service on June 25. The month ended with 11 tanks in service.

### Secondary Treatment

The secondary process operated with 5 aeration trains in service during the month. Nine secondary clarifiers were in service to start the month. Clarifiers were rotated in and out of service for maintenance, maintaining 9 in service throughout the month.

### Key Measures

Volume Treated	1945	million gallons
Permit Compliance	0	exceptions
Biosolids	4161	wet tons hauled
	1096	dry tons hauled
	26.34%	cake total solids

### Permit Compliance Summary – June 2019

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
64.82	9/25	12/30	96/80	96/80	13/200	102/139

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 June 2019, 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 1944.61 million gallons. For the month, influent and effluent cBOD concentrations averaged 238 mg/l and 9 mg/l, respectively (96% removal); influent and effluent TSS averaged 298 mg/l and 12 mg/l, respectively (96% removal).

There were no diversions around secondary in June. All flow received secondary treatment.