



## **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

August 7, 2018

TO: Robert Waddle, WTD Operations Manager

FROM: Process Control Staff

SUBJECT: West Point Treatment Plant Performance Report – July 2018

All discharge requirements were met in July at the West Point Wastewater Treatment Plant. All wastewater received secondary treatment. There were no days when flow was diverted around secondary. 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 63.82 MGD, 1.46 MGD below the average July flow for the previous five years (65.28 MGD). North end flows were sent to South Plant and Brightwater via Woodinville and North Creek.

Seattle had a drier-than-normal July. West Point recorded a total of 0.01 inches of precipitation for the month. Measureable precipitation fell only on July 1. SeaTac recorded 0.05 inches of precipitation, 0.65 inches below the normal July rainfall of 0.70 inches. Boeing Field recorded 0.05 inches of precipitation, 0.66 inches below the normal 0.71 inches. The National Weather Service Office at Sand Point recorded 0.02 inches of precipitation, 0.77 inches below the normal 0.79 inches.

All permit-required samples were collected and reported.

### Primary Treatment

Six primary sedimentation tanks were in service during the month. The West side is out of service for the installation of replacement effluent launder gates.

### Secondary Treatment

The secondary process operated with four aeration trains and eight final clarifiers in service. Aeration trains 1 and 2 are out of service for new aerator installation.

Key Measures

Volume Treated	1979	million gallons
Permit Compliance	0	exceptions
Biosolids	4107	wet tons hauled
	1042	dry tons hauled
	25.37%	cake total solids

Permit Compliance Summary – July 2018

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
63.82	8/25	9/30	97/85	97/85	23/200	104/139

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 July 2018, 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 1978.56 million gallons. There were no days when flow was diverted around secondary treatment.

For the month, influent and effluent cBOD concentrations averaged 261 mg/l and 8 mg/l, respectively (97% removal); influent and effluent TSS averaged 287 mg/l and 9 mg/l, respectively (97% removal).