

## King County WTD - Sewer Rate Financial Model

### Capital Spending Forecast\_2027 Proposal

#### CIP

- Asset Management - Conveyance
- Asset Management - Plants
- Capacity Improvement
- Operational Enhancements
- Planning & Administration
- Resource Recovery
- Regulatory
- Resiliency

#### Total - CIP

### CIP - Capital Spending Forecast\_2027 Proposal

#### Asset Management - Conveyance

- Bellevue Interceptor Rehabilitation
- BWO West North Creek Force Main Rehabilitation
- Cathodic Protection Program
- Conveyance System H2S Corrosion Rehabilitation
- Coordinate with WSDOT on I-405N
- Division Wide Force Main Inspection Access Program
- East North Creek Force Main Structural Lining or Replacement
- ESI Section 10 Rehabilitation
- ESI Section 13 Rehabilitation Phase II
- ESI Section 2 Rehabilitation Phase III
- Interbay Force Main & Odor Control
- Issaquah Interceptor Rehabilitation
- Juanita Interceptor Rehabilitation
- Kenmore Interceptor Landfall Structure Rehabilitation
- Lake Hills Boulevard Siphon Replacement
- M Street Trunk Rehabilitation
- Murray Forcemain Rehabilitation
- Murray West Force Main Rehabilitation
- Odor / Corrosion Control
- Pipeline Replacement
- Redmond Interceptor Rehabilitation
- South Interceptor Rehabilitation
- SPC Yarrow Bay PS Overflow Pipe Rehabilitation
- SPO Eastgate Interceptor Rehabilitation Phase IV
- SPO Heathfield Forece Main Rehabilitation
- SPO Kent Cross Valley and May Creek Interceptors Rehabilitation
- Vashon WWTP Outfall Upgrade

#### Asset Management - Plants

- Alki Primary Treatment Tanks and Alki Influent Screening Roof Replacements
- Biosolids Agricultural Equipment
- Biosolids Forestry Equipment
- Biosolids Site Development
- Biosolids Transportation
- Brightwater Chemical Pipe System Replacement
- Brightwater Neuros NX-300 Blower Replacement
- Brightwater Operations Center Roof & HVAC Replacement

Chinook Research Vessel Replacement  
Division Wide Offsite Level Controls and Communication Upgrade  
Division Wide VFD Replacement Program  
Division-Wide UPS Replacement Program  
Electrical / I&C  
Generator Power Systems Lifecycle Management Program  
Hidden Lake PS Raw Sewage Pump Replacement  
HVAC Replacements and Refurbishments  
Kenmore PS and Storage Facility Upgrade  
Lab Camp  
Lake Ballinger PS Upgrade  
Lakeland Hills PS Facility Replacement  
Matthews Park PS Odor Control Replacement  
Mechanical Upgrade & Replacement  
Membrane Lifecycle Replacement Program Brightwater and Carnation  
Murray PS Raw Sewage Pump Upgrade  
Offsite Standby Generator Retrofit with Load Bank Connections  
Ovation Evergreen Control Systems Lifecycle Management Program  
PIMS Replacement  
Roof Replacements for WTD Facilities  
Small Generator Replacement at Various Offsite Stations  
South Plant Barscreen Upgrade  
South Plant Biogas Scrubbing System Upgrade  
South Plant C2, C3 LP and C3 HP Piping Replacement  
South Plant Chemical ORT System and Dewatering Carbon Scrubber Improvements  
South Plant Electrical Improvements  
South Plant Flow Control Structures (#1-4) Component Replacement  
South Plant Influent Gates & Actuators Replacement  
South Plant Raw Sewage Pump #3 Replacement  
South Plant Santler Building Redevelopment  
South Plant Screening Dewatering Units Replacement  
South Plant Secondary Odor Control Storage System Improvements  
South Plant Water Tower Lead Abatement  
SP Biogas and Heat Systems Improvements  
SP DAFT Tank Rehabilitation  
SPO Medina - Wilburton Siphons Odor Control  
STP Aeration Tank Rehabilitation  
STP Mixed Sludge Line Replacement  
STP RAS Piping and Component Replacement  
STP Septage Receiving  
Structures / Site Improvement  
Vashon TP Clarifier 1 & 2 Refurbishment (Standalone)  
West Point Electrical Improvements  
West Point EPS Isolation Gate Rehabilitation  
West Point IPS / EPS Pump Refurbishment Program  
West Point Primary Sediment Tank Corrosion Protection  
West Point Propane System Improvements  
West Point Secondary Clarifier Mechanism Refurbishment  
West Point Sodium Hypochlorite System  
WLRD Environmental Lab MCC Replacement  
WPO Alki Bar Screen Replacement  
WPO Denny Way Regulator Station Back-up Power  
WPO Murray PS Upgrade  
WPO North Beach Pump Station Upgrade  
WPTP C1/C2 Pipeline Replacement

WPTP Cathodic Protection System Upgrade  
WPTP Centrifuge, Centrate and SR lines Replacement  
WPTP Co-Gen Replacement  
WPTP Cogeneration Refurbishment  
WPTP Critical Gate Refurbishment Program  
WPTP CW Pipeline Replacement  
WPTP GBT Replacement  
WPTP Grit Classifier Replacement  
WPTP Heat Loop Refurbishment  
WPTP Instrument & Service Air Replacement  
WPTP LSG Piping Replacement  
WPTP OGADS System Replacement  
WPTP Oxygen Generation System Refurbishment  
WPTP PE and RAS Pipe Restoration/Replacement  
WPTP Sand filter Replacement  
WTD CMMS Upgrade  
WTD Offsite Facilities Security Upgrade Project  
WTD Ovation Control Systems Upgrades  
WTD Roofing Program 2024-2028  
WTD Standby Generator Fuel Storage ATG (Automatic Tank Gauging) Upgrade Program  
Yarrow Bay PS Permanent Emergency Backup Generator

### **Capacity Improvement**

Black Diamond Payments  
Black Diamond Trunk Capacity Upgrade  
Boeing Creek Trunk Replacement and Parallel  
Brightwater Aeration Basin No. 4  
Brightwater Aeration Basin No. 5  
Brightwater Centrifuge No. 3  
Brightwater Digester Capacity  
Brightwater Grit Removal Expansion (Placeholder)  
Brightwater Membrane 9 & 10 Cassettes  
Brightwater Primary Clarifier Expansion (Placeholder)  
BW Basins & Cassettes (11 & 12)  
Coal Creek Siphon & Trunk Parallel  
East Section Permanent Flow Monitors  
Garrison Creek Interceptor Upgrade  
Lake Hills and NW Lake Sammamish Interceptor Upgrade  
Medina Pump Station Upgrade  
Medina Trunk Replacement  
North Mercer Island & Enatai Interceptors Upgrade  
Richmond Beach Edmonds Interceptor Parallel  
Richmond Beach Force Main Parallel  
Richmond Beach PS Upgrade  
Sammamish Plateau Diversion  
Sammamish Plateau Interim Capacity  
Soos Creek Cascade Relief Interceptor No. 2 Upgrade  
South Park Conveyance Rerouting to Rainier Vista Interceptor  
South Plant Digester Capacity  
South Plant ETS Expansion (Placeholder)  
South Plant Primary and Secondary Clarifier Upgrade  
SPC North Lake Sammamish Flow Diversion  
STP Secondary Sedimentation Tanks Retrofit  
Treatment Planning Program  
Tukwila Freeway Crossing Replacement

West Point Digestion Capacity Expansion  
West Point Secondary Clarifier Capacity Expansion  
WPTP OGADS Replacement

### **Operational Enhancements**

Alki Permanent Standby Generator  
Brightwater Biogas Conditioning  
Brightwater Influent Pump Station Optimization  
Carkeek CSO Dechlorination System Modifications  
Lake Union HVAC Improvements  
Process Replacement/Improvement  
SPO Black Diamond PS RSP Rehabilitation  
Sunset/Heathfield RSP Replacement  
Technology Assessment and Innovation Project  
West Point Additional IPS Pump  
West Point Digester Mixing System Improvements  
West Point Sludge Blend Tank Mixing System  
WPTP GBT Foul Air System Improvement

### **Planning & Administration**

Capital Project Oversight  
Regional Wastewater Services Plan (RWSP) Update  
RWSP Conveyance System Improvements  
RWSP Local Systems I/I Control  
Water Quality Capital Outlay  
WTD Capital Project Formulation  
WTD Capital Projects Closeout

### **Resource Recovery**

Brightwater Digester Circulation Pump Replacement  
Brightwater Digester Gas Optimization  
Brightwater Odor Control Optimization  
Brightwater Space Heating - Heat Pump Installation  
BW Reclaimed Water Storage  
Class A Loop Biosolids Facility  
Loop Biosolids Compost Pilot at SP  
Reclaimed Water Planning & Infrastructure  
Sewer Heat Recovery, Renewable energy projects - Long term planning  
South Plant Digester Circulation Pump Replacement  
West Point Digester Circulation Pump Replacement  
West Point Digester Gas Optimization - Phase 2  
West Point Solar PV installation Over Primary Clarifiers  
WP Biogas Utilization Improvement Program  
WTD Electric Vehicle Charging Stations  
WTD Solar Program

### **Regulatory**

Comp Planning & Reporting  
CSO Control & Improvement  
CSO Supplemental Compliance and Corrective Action  
East Ship Canal Wet Weather Facilities  
Elliott West CSO Compliance  
Elliott West Wet Weather Treatment Station  
Georgetown Wet Weather Treatment Station  
Joint Ship Canal WQ CSO Control

Lower Duwamish Waterway Superfund  
Mitigation Site Maintenance and Monitoring  
Mouth of the Duwamish - Chelan Storage Parent  
Mouth of the Duwamish - Wet Weather Treatment Station and Conveyance Parent  
Mouth of the Duwamish Facility Plan  
Nitrogen Removal Optimization Mid-term Capital – Sidestream Treatment  
Nitrogen Removal Optimization: Near-term Capital Program  
PSNGP Nutrient Reduction Strategy  
Sediment Management Plan  
STP Aeration Tank Foam Wasting Control  
STP Secondary Aeration Modified Ludzak Ettinger Retrofit  
Water Quality Improvement Alternatives  
West Duwamish Wet Weather Storage  
WP Power Quality Improvements  
WP Power Reliability Improvements  
WPO South Magnolia Supplemental Compliance

**Resiliency**

30th Avenue PS Structural Retrofits  
63rd Avenue PS flood Protection Upgrade  
63rd Avenue PS Liquefaction Retrofits  
Climate Adaptation Planning Program  
Duwamish PS Structural Retrofits  
Henderson PS Liquefaction Retrofit  
Interbay Pump Station Structural Retrofits  
Interurban PS Liquefaction Retrofit  
Matthews Park PS Flood Protection Upgrade  
Matthews Park PS Structural Retrofits  
Murray PS Flood Protection Upgrade  
South Mercer PS Landslide Protection Upgrade  
South Plant Digester Equipment Building Structural Retrofits  
South Plant Effluent Pump Station Structural Retrofits  
South Plant Santler Building Structural Retrofits  
SPTP Influent Pump Station Seismic Upgrades  
Sweylocken PS Structural Retrofits  
W. Marginal Way PS Structural Retrofits  
West Point Maintenance/Effluent Pump Station Structural Retrofits  
West Point Primary Sedimentation Area Roof Structure  
Woodinville PS Flood Protection Upgrade  
WP Life Safety Capital Improvements Program  
WPTP Admin/Ops Center Seismic Upgrades  
WPTP Passive Weir for Emergency Bypass  
WPTP Raw Sewage Pump Replacement  
WTD Resiliency Rollup  
York PS Flood Protection Upgrade

**Total - CIP - Capital Spending Forecast\_2027 Proposal**

**2026-2036**

\$ 927,662,868  
3,021,207,691  
2,044,336,734  
301,352,361  
137,809,723  
271,023,881  
7,139,647,190  
344,237,542  
**\$ 14,187,277,990**

**2026-2036**

**\$ 927,662,868**  
\$ 40,474,049  
164,860,479  
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11,154,533  
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5,905,898  
59,880,700  
1,526,392  
7,015,731  
1,204,242  
8,821,831  
63,687,692  
6,036,519  
9,679,758  
105,516,775  
79,821,099  
590,704  
49,965,249  
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29,579,575  
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31,363,483  
128,872,501  
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14,382,917  
420,841  
18,628,178  
1,559,769  
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\$ 21,901,398  
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**\$ 7,139,647,190**

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17,091,203  
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2,036,697  
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123,184  
24,607,599  
11,113,466  
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3,880,463  
33,816,424  
1,942,897  
147,634,118  
15,155,102  
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**\$ 14,187,277,990**