

Sewer Rate Overview and 2021 Schedule And Portfolio and Asset Management Wastewater Treatment Division

Presented to the Regional Water Quality Committee March 3, 2021



Rate Schedule

February – WTD project managers update cashflow projections for capital projects to inform final rate proposal; previous year's financials are closed

February 4 – MWPAAC Rates and Finance Subcommittee meeting

February 24 – MWPAAC General meeting

March 4 – MWPAAC Rates and Finance Subcommittee meeting

March 8 – Executive briefing, direction provided



Rate Schedule

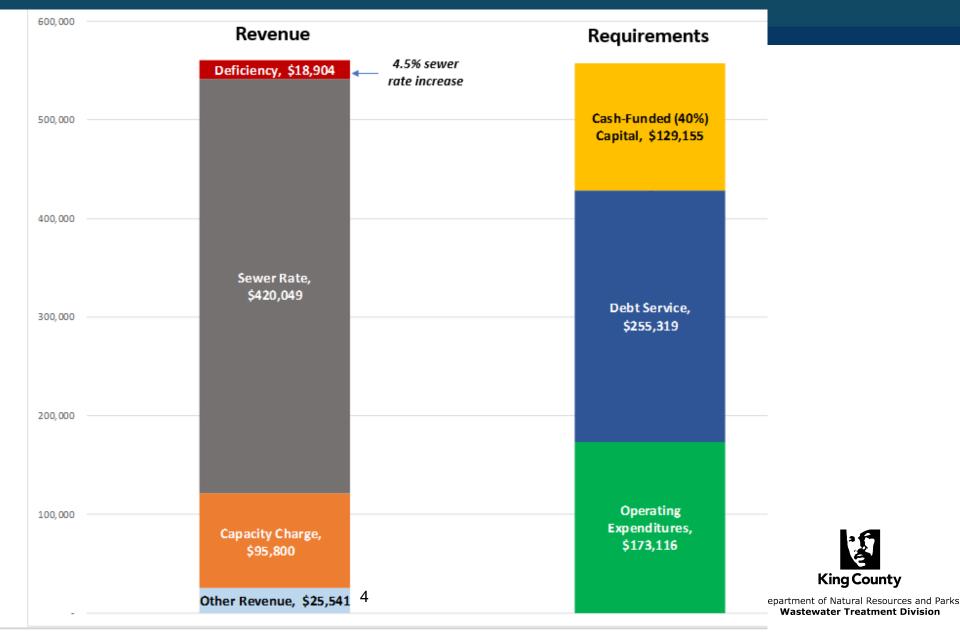
March 24 – MWPAAC vote on recommendation letter to Executive regarding the proposed rate

- **April 1** MWPAAC Rates and Finance Subcommittee
- April 15 Executive's 2022 Sewer Rate and Capacity Charge Proposal transmitted to King County Council
- April 28 MWPAAC General meeting and possible consideration of a recommendation letter to King County Council regarding the proposed rate
- May 5 King County Council Regional Water Quality Committee briefing

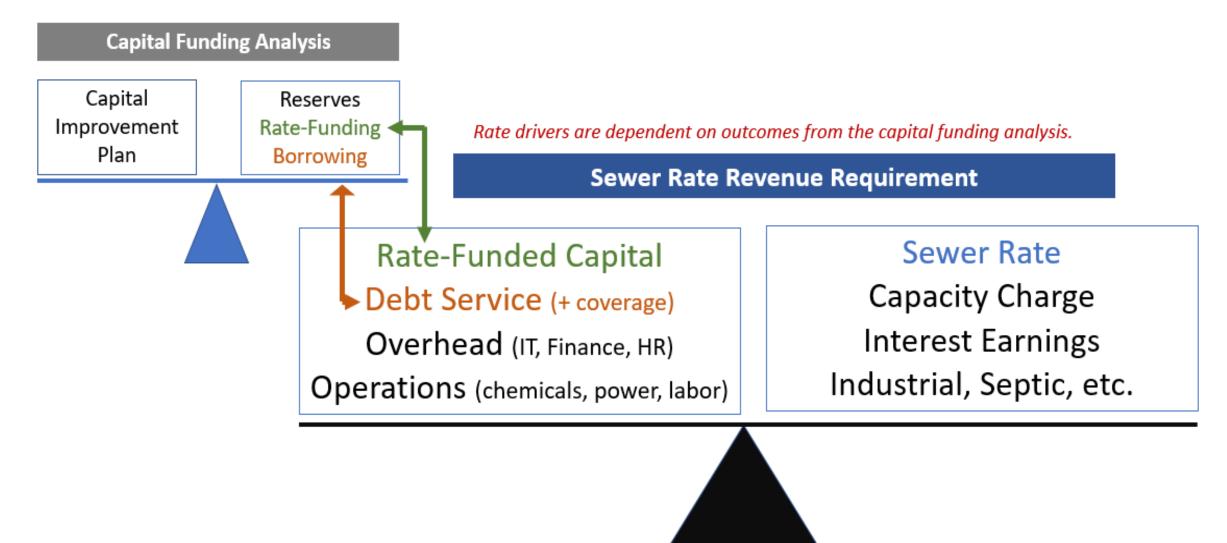
May – June – King County Council Budget and Fiscal Management Committee briefings and Council action The regional sewer contract stipulates that King County shall determine the rate *prior* to July 1st of each year

Revenue Requirement Overview

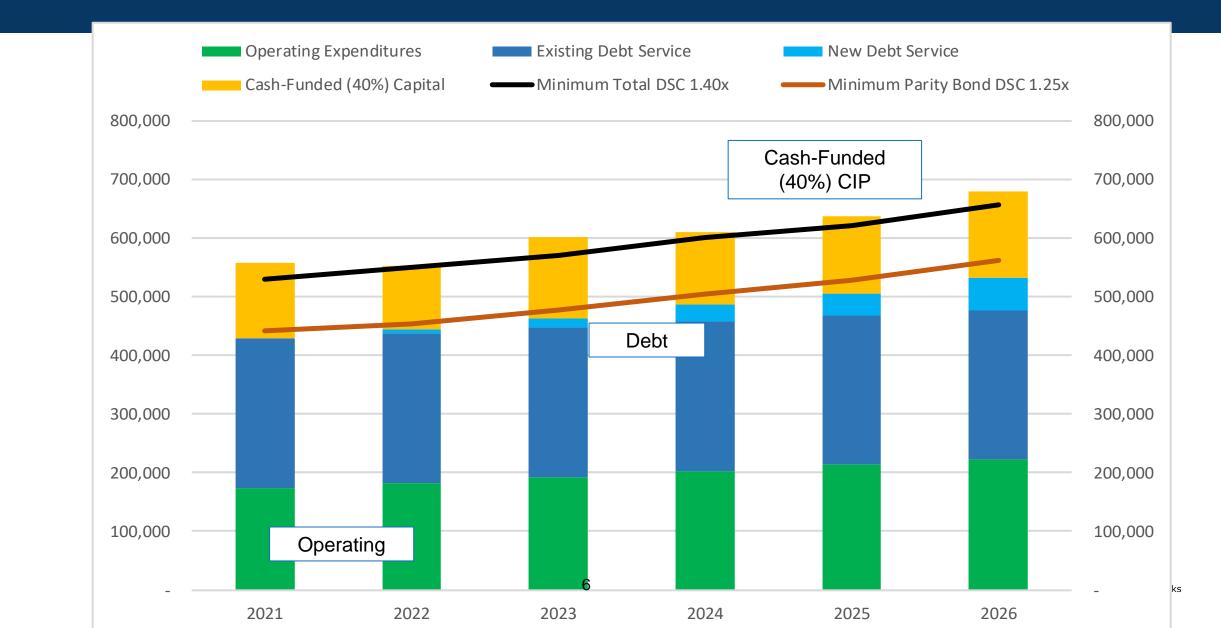
2021 Revenue Requirement Components (\$ in 1,000s)



Revenue Requirement Overview



Adopted Rate Plan – 2021 Rate Setting in 2020



Questions?

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Project Portfolio Management

In 2017, WTD introduced Project Portfolio:

- Allocate resources to the right projects at the right time
- Objective process to prioritize / balance / sequence refurbishment, repair and replacement of equipment
- Ensure transparent decision making
- Tools to document and communicate the "why" behind project prioritization



Project Portfolio Management

- Created inventory (or list) of all known project requests
- Created categories of similar type projects
- Prioritized projects based on each category's unique criteria (routinely reassessed)
- Aligned categories with WTD strategy
 - Ensures strategies are funded and implemented















Asset Management

Regulatory

Resources & Energy Operational Enhancements Capacity Improvement

Resiliency

WTD Capital Categories

10

Conveyance System

Approximately 400 miles of sewer pipelines

25 regulator stations

48 pump stations

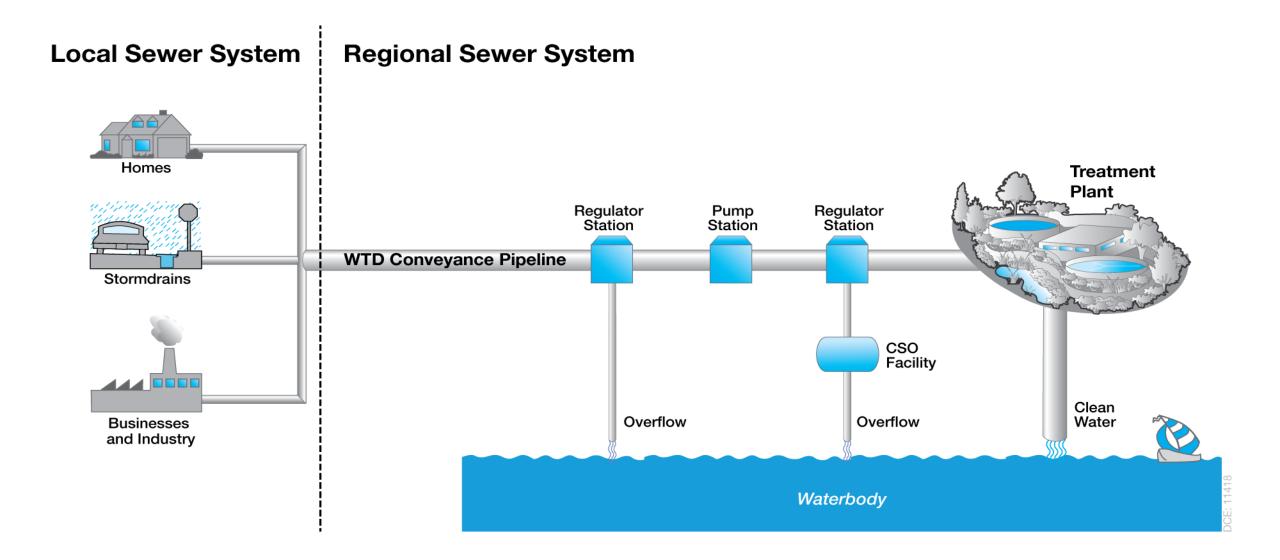


Conveyance System History – Major Expansions

| 1900s | Seattle combined system construction (North Trunk still in use) |
|-------|---|
| 1960s | Metro regional system construction |
| 1980s | Renton Effluent Transfer pipeline |
| 1990s | RWSP adopted, CSI program started |
| 2000s | CSO Facilities |



Conveyance System Facilities





- North Mercer Island and Enatai Interceptors Upgrade (Mercer Island, Bellevue)
- Pump station and conveyance system capacity upgrade
- New force mains, gravity pipe, and siphons as well as gravity pipe rehabilitation



Variable Frequency Drive Replacement (Systemwide)

- Ongoing program
- Proactively replace variable frequency drives (VFDs) at the end of their life or that become obsolete
- 2021 Planned Replacements:
 - Duwamish PS (Seattle)
 - 63rd Ave PS (Seattle)
 - West Seattle PS (Seattle)
 - Wilburton PS (Bellevue)
 - South Mercer PS (Mercer Island)
 - Kenmore PS (Kenmore)





Medina PS

- Replace Motor Control Center
- Replace Variable Frequency Drives
- Install a permanent standby generator







Lakeland Hills Generator (Auburn)

- Install a standby generator and fuel tank
- Pump station does not currently have a standby power system
- Currently served by a mobile generator



Alki Permanent Standby Generator (Seattle)

- Replace existing generator at Alki Wet Weather Treatment Station (WWTS)
- Backup power to both Alki WWTS and 63rd Avenue PS
- Pump station does not have a standby power system
 - Currently served by a mobile generator





Upcoming Pipeline Replacements

Coal Creek Trunk (Bellevue)

Capacity expansion

Realignment out of a creek bed





Upcoming Pipeline Replacements



Lake Hills Trunk and Northwest Lake Sammamish Interceptor Upgrade (Redmond and Unincorporated King County)

- Replace, refurbish, or parallel
 4.5 miles of pipeline
- Current pipes are under capacity and in poor condition



Upcoming Pipeline Replacements / Rehabilitation



Interbay Force Main & Odor Control (Seattle)

- Dual force mains, discharge structure, and gravity pipe are corroded
- Replace the Interbay Pump Station dual force mains
- Rehabilitate the force main discharge structure (FMDS)
- Rehabilitate downstream 96" gravity pipe
- Construct an odor control facility at the FMDS
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Upcoming Pipeline Rehabilitation

Lake Hills Interceptor Rehabilitation Phase II (Bellevue)

- Rehabilitate 7,776 linear feet of reinforced concrete Lake Hills Interceptor pipe
- Pipeline is deteriorating due to hydrogen sulfide exposure



Questions?

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