## Water Resiliency Strategy



**City of Vancouver Water Resiliency Strategy Capital Program and Financial Alternatives** 

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### **Presentation Agenda**

- Vancouver's Integrated Water System
- Future capital needs
- Financial Levers/recommendations
- Impacts to customers
- Next steps



Using an integrated water approach, we protect our community, environment and infrastructure better.

#### Wastewater:

We collect and treat wastewater from residential,commercial, and industrial users so that clean water can be reintroduced to the environment.

6.9 billion gallons of treated wastewater2 treatment facilities785 miles of wastewater pipe

**41** pump stations

Integrated Water Management

#### Stormwater:

We manage systems that control stormwater including flood control as well as provides solutions to restore area streams and the environment.

300+ miles of stormwater pipe
24,000+ catch basins
5,752 infiltration wells
2,800 treatment facilities
19% tree canopy

#### **Drinking Water:**

We provide high-quality and reliable drinking water and protect groundwater / aquifer water quality.

10.3 billion gallons of drinking water11 water stations1,090 miles of water pipe

## Water Resiliency Framework

The Water Resiliency Framework establishes an integrated water management approach that helps us prioritize critical investments to achieve our resiliency and livability goals



#### **Reliable and Resilient Service**

#### We must continue to **proactively address pressures** on our system:

- Population growth
- Aging infrastructure
- Climate change
- Public health
- Livability
- Regulatory changes



### **Previous vs. Current 15-Year CIP Forecast**



The new Operations Center is not included in the amounts shown.

### **Most Expensive Projects from 15-Year CIP**

Project	Description	Benefits	Approx. Cost
New Operations Center Construction	<ul> <li>Replace existing seismically deficient and undersized operations center.</li> </ul>	<ul> <li>Improve system resiliency and operational efficiency</li> </ul>	\$125 million
PFAS Treatment (Drinking Water)	<ul> <li>Add treatment capacity for PFAS removal</li> </ul>	<ul> <li>Safe drinking water</li> <li>Comply with EPA regulations</li> </ul>	\$100 million
Solids Renewal (Westside WWTF)	<ul> <li>Construct solids processing tanks, digesters, and equipment</li> <li>Recover biogas for beneficial fuel use</li> <li>Dewater solids for beneficial use (e.g., fertilizer)</li> </ul>	<ul> <li>Replace aging infrastructure</li> <li>Save energy costs</li> <li>Comply with regulations</li> <li>Recover resources</li> <li>Improve air quality</li> </ul>	\$90 million
Marine Park WWTF Capacity Upgrade	<ul> <li>Add primary solids removal basins</li> <li>Add secondary treatment aeration basins and tanks</li> </ul>	<ul> <li>Build future growth capacity</li> </ul>	\$56.5 million

#### **Capital Improvement Program Policies and Principles**

• Take care of what we have

- Pay-as-we-go to extent practical
- Consistently manage public assets following Council-approved financial policies and infrastructure management best practices

- Do not defer maintenance
- Apply a long-term perspective
- Adjust utility rates annually with periodic comprehensive reviews



## **Financial Levers**

#### Levers can be adjusted to meet investment needs and address changing conditions



## **Opportunities with Rate Changes and Bonding**



### **Bonding and Rates**



## **Opportunities with System Development Charges (SDC's)**

- ✓ Maintain competitiveness in region
- Effectively invest in our system to meet growth demands
- ✓ 10-years since prior update
- ✓ Improve equity of funding
- ✓ Stabilize rate changes



## **System Development Charges (SDCs)**



## **Opportunities with Inside/Outside Multiplier**

- $\checkmark\,$  Focus on affordability and equity
- ✓ Balance and manage annexation impacts
- ✓ Stabilize rate changes



## **Inside/Outside Multiplier - Background**

## Why is there a multiplier?

- Higher costs to serve customers outside city limits
- Annexation incentive for unincorporated areas
- Financial return for customers within city limits

### **Risks/drawbacks of multipliers:**

- Revenue loss with annexation
- Higher costs for utility customers outside city limits



## **Opportunities with Utility Tax Rate**



#### **Financial Levers: Overview and Impacts**



# **Proposed Monthly Utility Rate Increases**

Utility Rate Increase	2022 Rate*	2023 Rate*	2022 vs 2023 Difference
Total – 5.8%	\$95.18	\$100.68	\$5.50

\*Monthly rate for a typical single-family residence within the City limits.



# **Proposed Monthly Utility Rates\***



\*Monthly rates for a typical single-family residence within the City limits.

# Single Family Average Monthly 2022 Utility Rates



## **Policy Direction from Council**

Ordinance	Description	Ord. Number
System Development Charges	Increase System Development Charges	VMC 14.04.235
Water Rate Ordinance and Adjust Inside/Outside Multiplier	<ul> <li>Approve 4.5% Water Rate Increase</li> <li>Reduce Inside/Outside Multiplier from 1.5 to 1.25</li> </ul>	VMC 14.04.210
Sewer Rate Ordinance and Adjust Inside/Outside Multiplier	<ul> <li>Approve 6% Sewer Rate Increase</li> <li>Reduce Inside/Outside Multiplier from 1.5 to 1.25</li> </ul>	VMC 14.04.230
Stormwater Rate Ordinance	Approve 8% Stormwater Rate Increase	VMC 14.09.060
Water/Sewer Utility Tax Ordinance	<ul> <li>Align Utility Tax revenue increases with six-year financial forecast</li> </ul>	VMC 5.92.010
Storm Utility Tax Ordinance	<ul> <li>Align Utility Tax revenue increases with six-year financial forecast</li> </ul>	VMC 5.93.010

## **Next Steps**

#### Near-Term Next Steps:

- Monitor EPA PFAS regulations
- Look for grant opportunities
- Operations Center design and construction
- Tiered rates study and future discussion
- Initial planning for incinerator replacement
- Reevaluate assumptions in next biennium

