

## WATER RATE PROPOSAL



### Talkin' Water Information Session #3

August 21 at 9:30 a.m.

# VIRTUAL EVENT GUIDELINES

- Your questions and comments are part of the public record.
- Sessions are recorded.
- A Question and Answer opportunity will be provided after the presentations.
- You can submit your questions by typing your questions in the thought bubble with a question mark inside.



- TVWD operates in an inclusive and discrimination-free manner to serve all customers.
- Staff will publish questions and comments and may exclude participants who disrupt events.



### PRESENTERS



Tom Hickmann, PE Chief Executive Officer



Dave Kraska, PE Willamette Water Supply Program Director



Paul Matthews Chief Financial Officer





# TOM HICKMANN, PE

### **Chief Executive Officer**

### Manages TVWD Operations

- Daily water delivery
- Capital Improvement Program
- Willamette Water Supply System
- Finance, Billing, Customer Service, Legal functions

### **District Priorities**

- Willamette Water Supply System
- In-District Infrastructure
- Partnerships
- Seeking federal and state grants and support





**Risks** threaten our water supply: **Earthquakes** Drought **Climate change Power outages Fires** 



## MULTIPLE WATER SOURCES SYSTEM RELIABILITY AND RESILIENCE

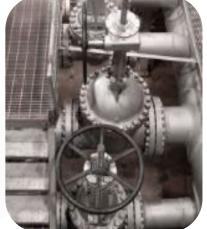


River water

Reservoirs



Aquifer Storage and Recovery



Regional

Partnerships

Water conservation



6 | TVWD Water Sources

## **HOW YOUR MONEY IS USED**

### Major Rate Drivers



# Construction of the additional water supply

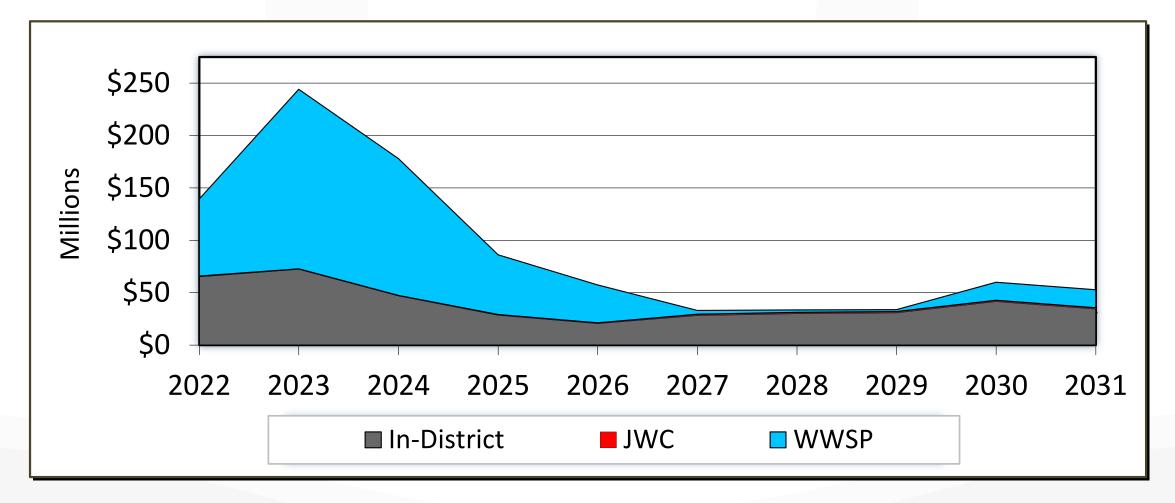




**Purchased Water** 



### **NEAR-TERM INFRASTRUCTURE INVESTMENTS**





## WHAT WE HAVE DONE TO MANAGE COSTS?

Reduced, Deferred, Partnered

Reduced Personnel Services Budget by 2.8% Deferred \$50 million of Infrastructure Projects Partnered with other utilities to lower and share costs









## **FINANCIAL STRATEGIES**

#### Risks

- Significant risk that future rate increases could be higher than planned
- Economy water sales revenue may not recover to pre-COVID levels
- Significant construction risk remains

#### Strategies

- Build financial capacity
- Adopt rates that provide financial resources in advance
- Enhance the customer emergency assistance program
- Pursue federal and state assistance





# DAVE KRASKA, PE

### Willamette Water Supply Program Director

#### Manages the Willamette Water Supply Program

- Infrastructure Planning and Design
- Permit Acquisition
- Public Outreach and Communications
- Real Estate Acquisition
- Construction Management
- Schedule and Financial Controls

### Priorities of the Willamette Water Supply Program

- Cost Management
- Safety/Risk Management
- Schedule: Complete on time



### Willamette Water Supply Our Reliable Water



- Long-Term Water Supply
   Selection
- Willamette Water Supply
   Program Overview
- WWSP Delivery Progress
- Looking Ahead

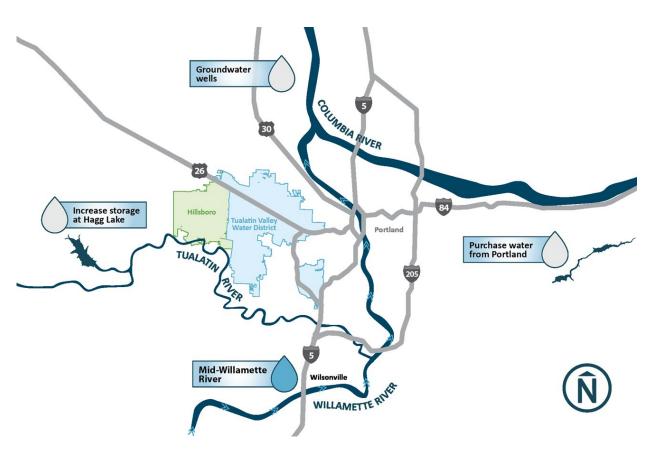


# LONG-TERM WATER SUPPLY SELECTION

In 2013, TVWD selected the Willamette River after a multi-year technical study and public input

- ✓ Lower cost less impact on rates
- Excellent water quality
- ✓ Ownership
- ✓ Reliable supply
- ✓ Fewer environmental impacts





Willamette River flows north from Eugene to the Columbia River.



# WILLAMETTE WATER SUPPLY PROGRAM OVERVIEW





TUALATIN VALLEY

14 | TVWD Water Sources

# Willamette Water Supply Program Mission

Provide a cost-effective, reliable, and resilient water supply system by July 2026, that benefits current and future generations of the communities we serve and supports a vibrant local economy.







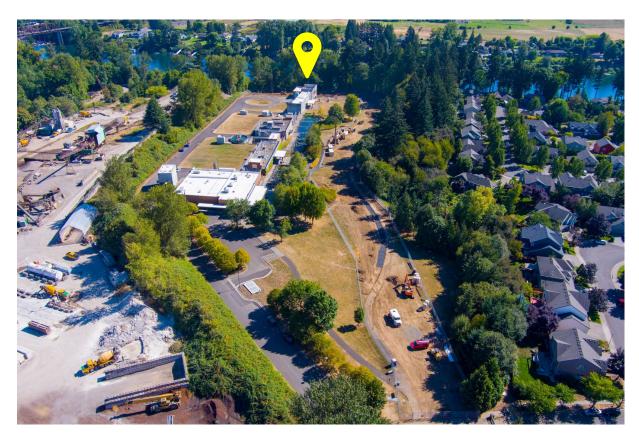


## **WWSS OVERVIEW**

- 1. Willamette River intake, located in Wilsonville
- 2. New state-of-the-art water treatment plant
- 3. 30+ miles of large diameter transmission pipeline
- 4. Water storage tanks



# MODIFIED AND EXPANDED INTAKE CO-LOCATED WITH THE WILLAMETTE RIVER WATER TREATMENT PLANT

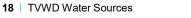




# WILLAMETTE INTAKE FACILITIES







### Willamette Water Supply Our Reliable Water



A multi-barrier water treatment plant will clean the water.

**19** | TVWD Water Sources





More than 30 miles of pipeline will connect communities to the mid-Willamette River supply.







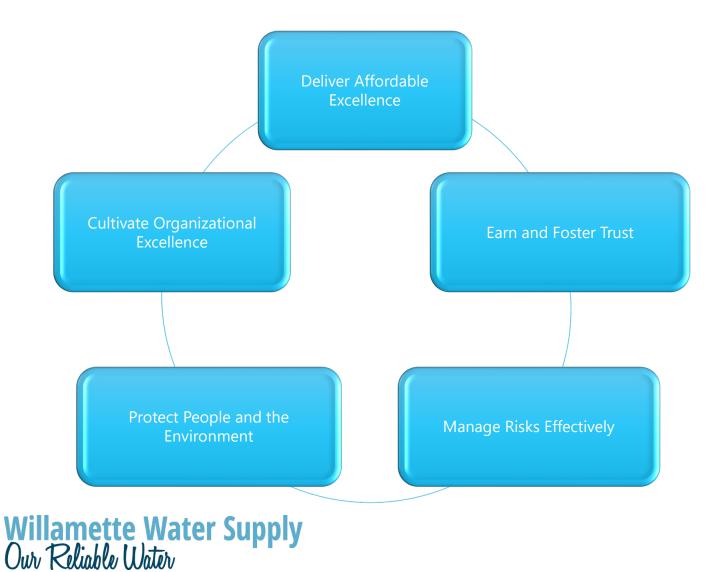


Water storage tanks hold water to be delivered to homes and businesses by gravity and provide emergency storage.

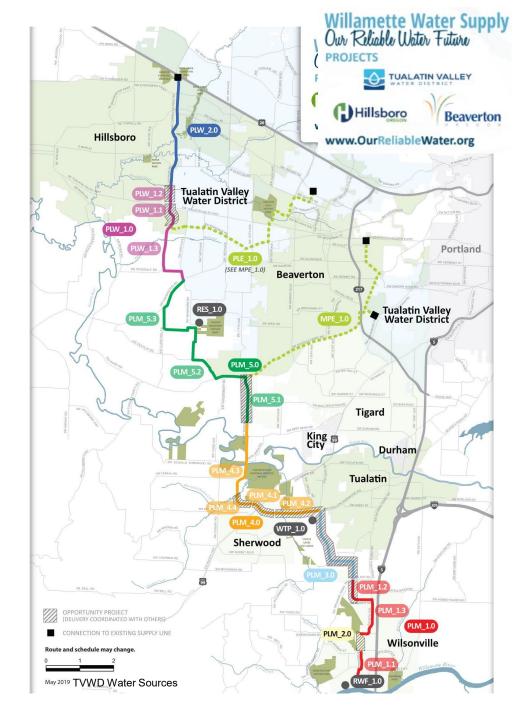
> Willamette Water Supply Our Reliable Water



# **WWSP DELIVERY PROGRESS**







### **Progress to Date**

- Completed 6 pipeline projects
- Secured WIFIA loans
- Received Federal permit
- Advanced 14 project designs
- Advancing 7 construction projects
- Continued successful partnerships



# **GROUND IMPROVEMENTS AT THE RAW WATER INTAKE**







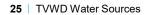
24 | TVWD Water Sources



## RAW WATER FACILITIES UPPER SITE









# TRENCHLESS CROSSING OF Willamette Water Supply ARROWHEAD CREEK





### OPEN TRENCH CROSSING OF COFFEE LAKE CREEK







## COFFEE LAKE CREEK CROSSING AFTER RESTORATION







## TRANSMISSION PIPELINE INSTALLATION NEXT TO TILE FLAT ROAD







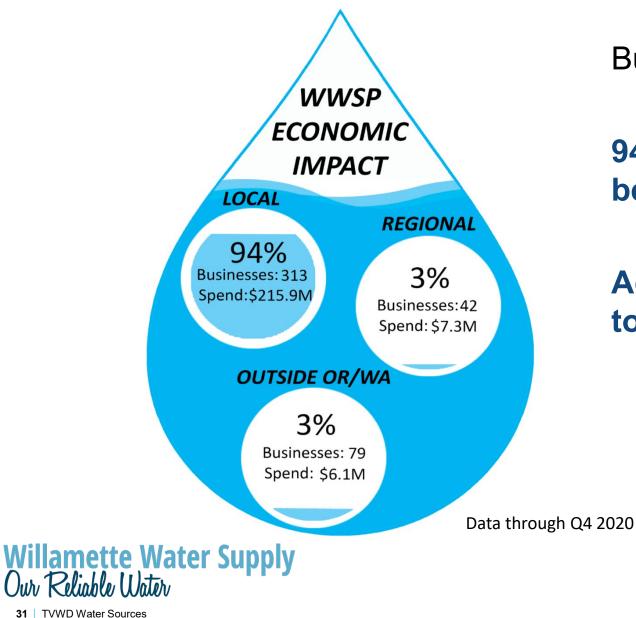
### NIGHTTIME CONSTRUCTION CROSSING 209<sup>TH</sup> AVE







## SUPPORTING OUR ECONOMY



**Business Utilization: Recent Activities** 

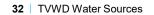
94% of spend for WWSS is benefitting the local economy

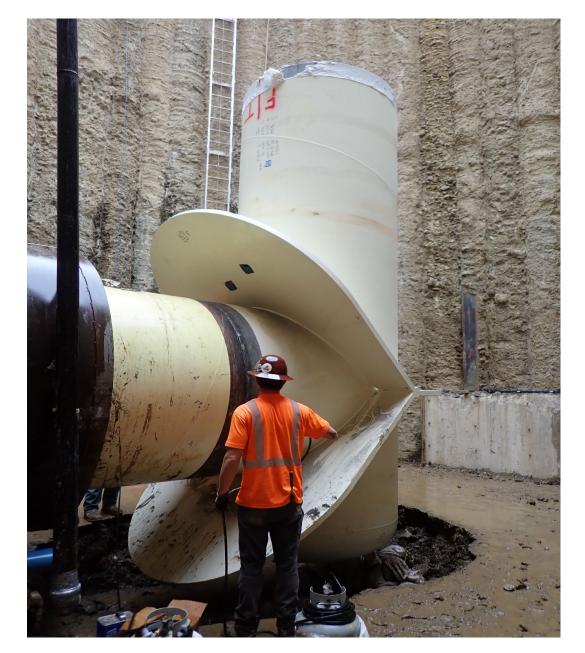
Added 69 local businesses during Q3 to Q4 2020 reporting period



# LOOKING AHEAD









# **PROGRAM WORK PLANNED FOR FY 2021-22**

#### Progress design on 7 projects Advance 16 construction projects Continued program management

- WIFIA compliance and loan programs
- Safety program
- Communications and outreach program
- Development of financial procedures

#### **Continued acquisitions**

- Real estate
- Permits and land use approvals
- Procurement

#### **Continued Planning Activities**

- Water supply integration
- Commissioning and start-up
- Operations



Willamette Water Suppl Our Reliable Water	y W	WWSP Monthly Program Bar Chart Baseline Candidate 6.1										Data Date: 1-Nov-2020; Print Date: 19-Mar-200 Layout: 01. WWSP Single Line Diagram RDI TASK filter: 01. SINGLE LINE DIAGRAM Layo					
ty Name	Start Finish	2019 Q1 Q2 Q3 Q	2020 4 Q1 Q2 Q3	04 0	2021	03 04	20	03 04	20	03 04	2024	04 01	2025	2026			
aseline Candidate 6.1	1-Jan-2014 30-Jun-2026		- 41 GL 40			40 44	41 44	40 44	41 46	40 44		<b>4 4</b>					
roject Specific	1-Jan-2014 30-Jun-2026													8			
Main Stem Extension Pipelines	1-Jan-2014 7-Jan-2025																
Pipeline PLM 1.0: WTP to Day Road	31-Jan-2017 27-Aug-2024													8			
Pipeline PLM_1.0: WTP to Day Road	31-Jan-2017 26-May-2017																
Pipeline PLM 1.1: South of Wilsonville Road	22-Aug-2017 18-Feb-2021	00000		·····		+				·				8			
Pipeline PLM 1.2: Garden Acres to 124th Project (Partner Project)	8-Aug-2017 8-Feb-2021	+ + 0000	1														
Pipeline PLM 1.3: Wilsonville Rd to Garden Acres	3-Jul-2018A 27-Aug-2024						44		I	i				8			
Pipeline PLM 2.0: Kinsman Road (Partner Project)	3-Aug-2015 5-Mar-2019																
Pipeline PLM 3.0: SW 124th Avenue Extension (Partner Project)	1-Jan-2014 31-Jul-2020													22			
Pipeline PLM_4.0: 124th to Beef Bend Road	16-Dec-2015 2-Jul-2024																
Pipeline PLM_4.0: 124th to Beef Bend Road	16-Dec-2015 22-Jun-2016													8			
Pipeline PLM_4.1: Highway 99 Crossing (Partner Project)	20-Jun-2016 26-Feb-2024		-							- i							
Pipeline PLM_4.2: Tualatin-Sherwood Road (Partner Project)	1-Nov-2018 2-Jul-2024		+ + +		÷ 328	****								<u></u>			
Pipeline PLM_4.3: Roy Rogers Road	12-Aug-2016 26-Feb-2024					aaaaa				- t							
Pipeline PLM_4.4: Chicken Creek to Borchers	17-Mar-2020 21-Jul-2023													22			
Pipeline PLM_5.0: Beef Bend to Farmington	31-May-2016 7-Jan-2025													8			
Pipeline PLM_5.0: Beef Bend to Farmington	31-May-2016 19-Oct-2016													8			
Pipeline PLM_5.1: Beef Bend to Scholls (Partner Project)	19-Oct-2016 13-Jan-2022													8			
Pipeline PLM_5.2: Scholls to Grabhorn	18-Sep-2017 3-Mar-2021													÷			
Pipeline PLM_5.3: Grabhorn to Farmington	15-Mar-2018 7-Jan-2025		-		-	aaaaaa				:				8			
Western Extension Pipelines	10-Dec-2015 8-Apr-2024													88			
Pipeline PLW_1.0: Farmington to Frances	10-Dec-2015 8-Apr-2024																
Pipeline PLW_1.0: Farmington to Frances	10-Dec-2015 16-Jun-2016													88			
Pipeline PLW_1.1: Blanton to TV Hwy (Partner Project)	31-May-2016 16-Sep-2019													2			
Pipeline PLW_1.2: TV Hwy to Frances (Partner Project)	27-Feb-2017 8-Apr-2024	÷	•	1										8			
Pipeline PLW_1.3: Farmington to Blanton	20-Nov-2017 16-Aug-2022				a comme												
Pipeline PLW_2.0: Frances to Highway 26	26-Nov-2018 2-Jun-2023		1		- anna anna anna anna anna anna anna an												
Eastern Extension Pipelines	20-Jun-2017 26-Mar-2025													8			
MPE_1.1 - Western Ave	20-Jun-2017 28-Mar-2023																
MPE_1.2 - Scholls Ferry - Cascade - Allen	1-Oct-2019 8-Dec-2023								-					22 22			
MPE_1.3 - Scholls Ferry - Roy Rogers to Fanno Creek	1-Oct-2019 26-Mar-2025				· ·	-				:				8			
Raw Water Facilities	1-Nov-2016 3-Dec-2024													÷			
RWF_1.0: Raw Water Facilities	1-Nov-2016 3-Dec-2024													88			
Design	1-Nov-2016 5-Jan-2021											iii		<u></u>			
CMGC	1-Nov-2016 3-Dec-2024					1				1							
Water Treatment Plant/Finished Water Pump Station	15-Sep-2017 25-Mar-2026													8			
WTP_1.0: Willame the WTP/FWPS	15-Sep-2017 25-Mar-2026																
Preliminary Design	1-Nov-2017 13-Feb-2018																
Design CMGC	15-Nov-2017 14-Jan-2022											Bi		8 <b></b>			
	15-Sep-2017 25-Mar-2026									1							
Distributed Controls System	27-Apr-2018 25-Mar-2026												<u></u>	22			
DCS_1.0: SCADA System	27-Apr-2018 25-Mar-2026									-		1					
Storage Reservoirs	1-Nov-2017 4-Mar-2025													8			
RES_1.0: Ground Storage Reservoirs	1-Nov-2017 4-Mar-2025											8		<u> </u>			
Procure Designer RES_1.0 Conceptual Design	1-Oct-2019 7-Feb-2020													22			
Design	1-Nov-2017 8-Jul-2019A			1.		-											
CMGC	10-Feb-2020 20-Aug-2021					-				i							
	20-Apr-2020 4-Mar-2025									-				88			
Program Milestones	4-Oct-2024 30-Jun-2026													<u> </u>			
Gravity Pipeline Completion	31-Dec-2024 31-Dec-2024											🛙		88			
Pressure Pipeline Completion	4-Oct-2024 4-Oct-2024										•			<u>.</u>			
Program Substantial Completion	30-Dec-2025 30-Dec-2025													87			
Program In-Service Date	30-Jun-2026 30-Jun-2026													22			

#### FY 2021-22



## SIX WAYS WE CONTROL COSTS AND STAY ON BUDGET



- 1. Maximize competition
- 2. Negotiate the best price and quality for services and goods.
- 3. Make cost effective engineering design decisions.
- 4. Proactively manage risks early.
- 5. Partner on projects.
- 6. Rigorously manage all aspects of the Program to stay on schedule.





### **PARTNERSHIPS SAVE MONEY & REDUCE IMPACTS** TVWD, Hillsboro, & Beaverton are Program Partners



**Kinsman Road Project** Partnership with Wilsonville & Oregon Department of Transportation



**124th Avenue Partnership Project** Partnership with Washington County



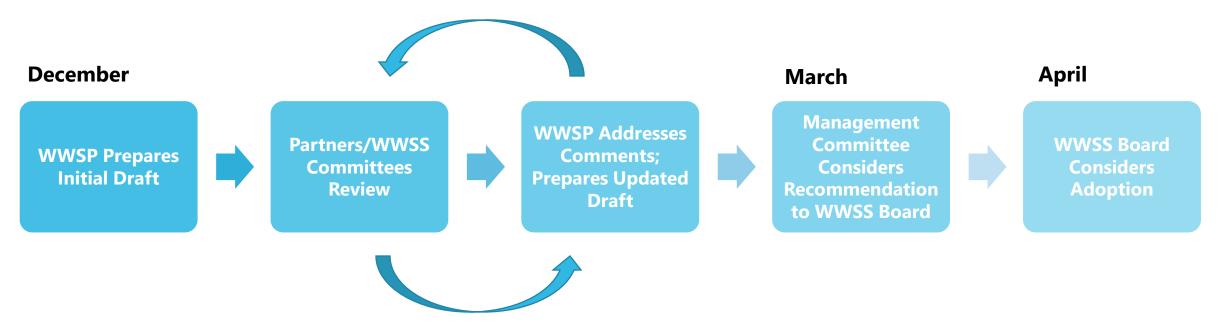
South Hillsboro Area Pipeline Project Coordinated with Newland



35 | TVWD Water Sources

#### Willamette Water Supply Our Reliable Water

### Willamette Water Supply ANNUAL BUDGET Our Reliable Water PREPARATION AND REVIEW

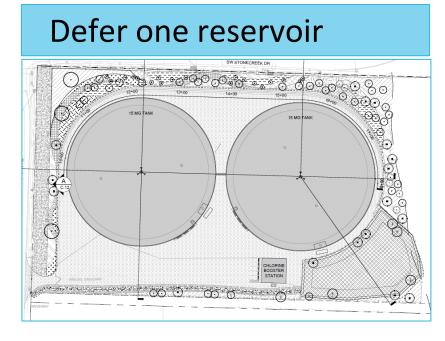


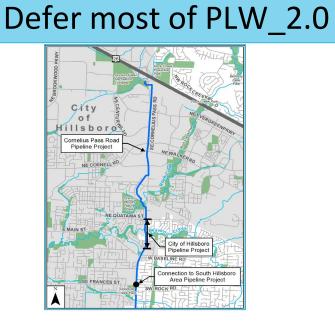
- Revenues suffering pandemic-related challenges
- Costs have increased since Baseline 5.2
- Acknowledge that all design done within one year
  - Last opportunity to make changes before everything is in construction
- **36** | TVWD Water Soulices



## **MANAGING COST, SCHEDULE RISK & BUDGET**

- Developed options to reduce spend through 2026 between \$30 million and \$170 million
- Balancing the mission of the WWSP with the current realities
- Evaluation of options to reduce spending by about \$50 million





#### Other deferrals

- Completing the fiber-optic communications network north of the WTP
- Minor WTP components
- Staff positions







# PAUL MATTHEWS

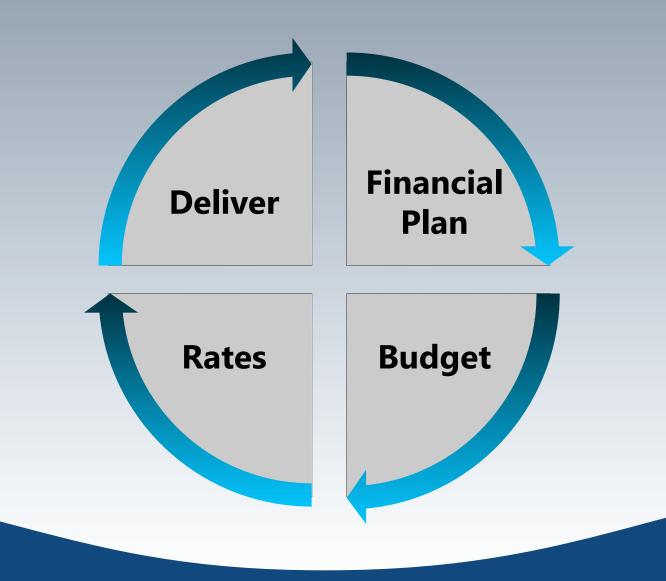
#### **Chief Financial Officer**

#### Manages the District's Financial Affairs

- •Oversees the Financial Management Cycle
  •Budget, Financial Planning and Analysis, Rate Setting,
  •Accounting and Auditing
  •Debt and Investments
  •Procurement
  •Priorities
  •Manage financial risks
- •Maintain access to low-cost financing
- •Drive business efficiency and accountability



### **DISTRICT FINANCIAL MANAGEMENT PROCESS**



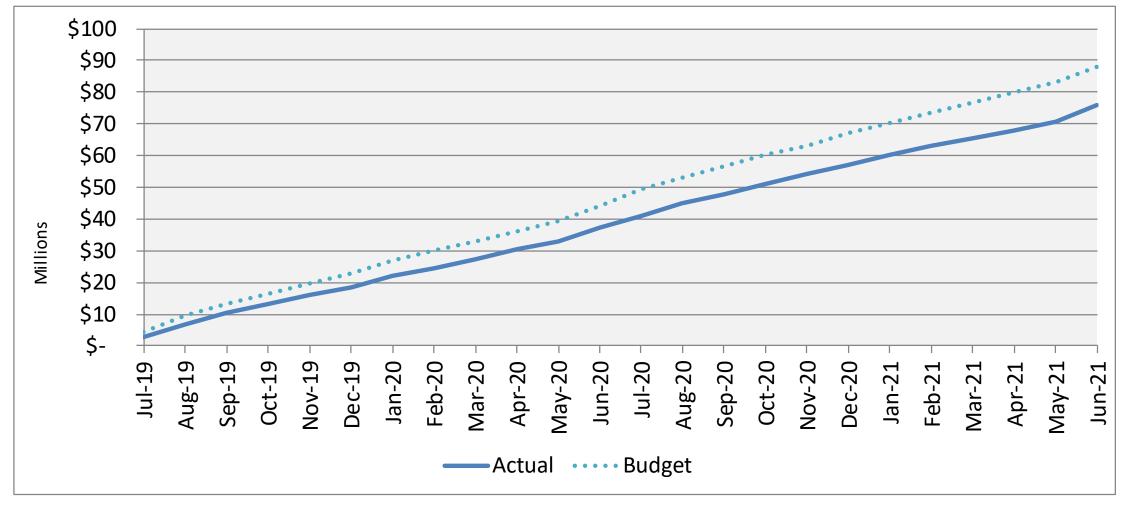




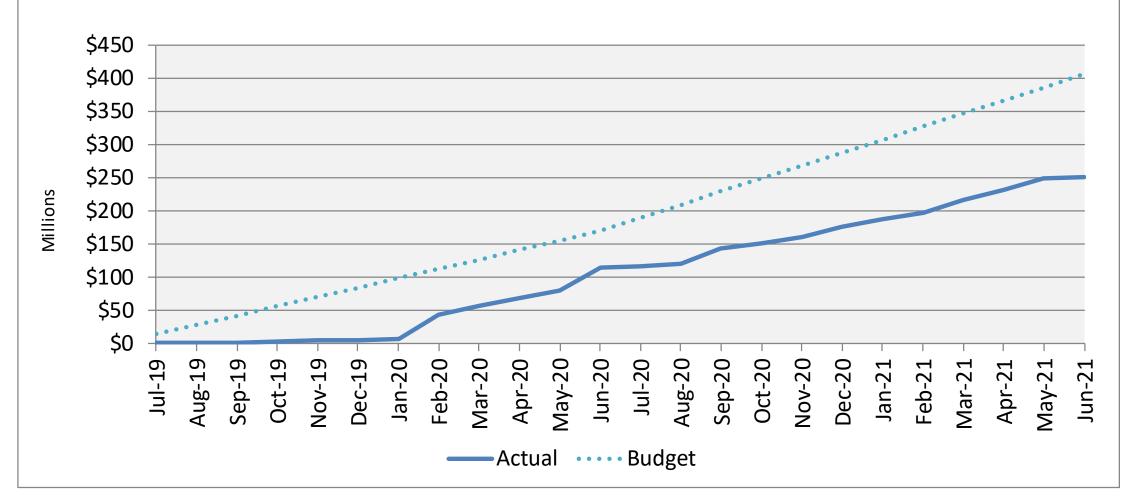


### 2019-21 FINANCIAL PERFORMANCE

# **CUMULATIVE OPERATING EXPENDITURES**

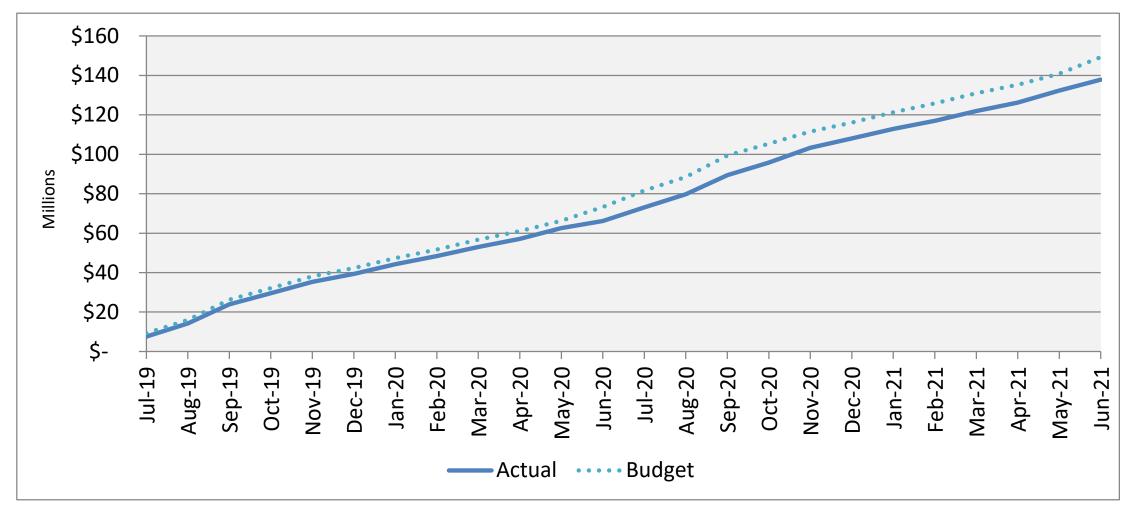


# **CUMULATIVE CAPITAL EXPENDITURES**

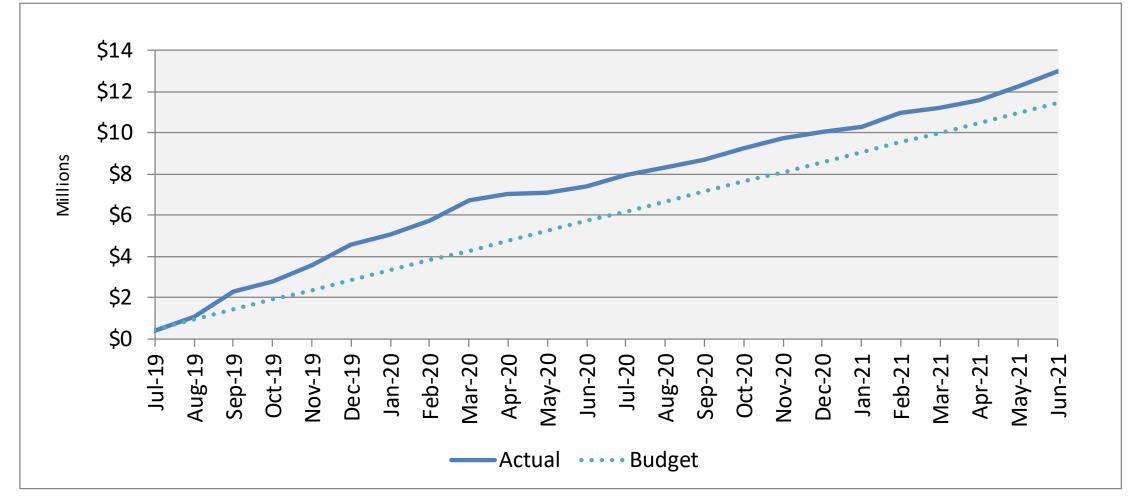




## **CUMULATIVE WATER SALES REVENUE**



### SYSTEM DEVELOPMENT CHARGE REVENUE





### DISTRICT'S FINANCIAL PERFORMANCE 2019-21 BIENNIUM

#### Revenue

- COVID-19 negatively affected water sales revenue
- System development charges exceeded plan

#### **Expenditures**

- Management focused on savings to provide financial flexibility during COVID-19
- Operating expenditures below budget
- Higher than anticipated bad-debt expense
- Capital expenditures below budget



### DISTRICT'S FINANCIAL PERFORMANCE 2019-21 BIENNIUM

#### Cash

- Projected ending fund balances higher than expected
- \$68+ million in cash accessible from WIFIA loan

#### Conclusions

- COVID-19 reduced revenue affecting the District's financial performance and debt strategy
- Savings have offset near-term losses in revenue despite increases in bad-debt expenses
- District's cash position remains strong





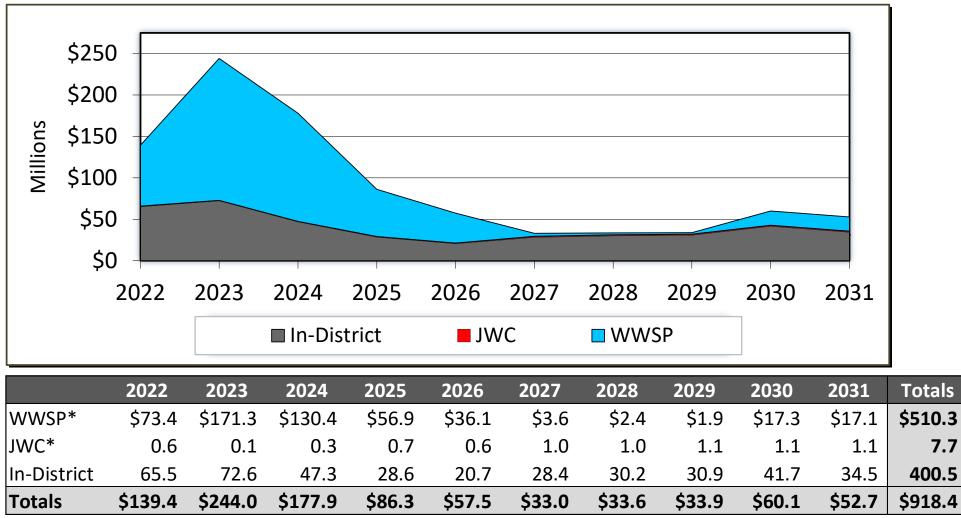


## FINANCIAL PLAN AND PROPOSED RATES

**Paul Matthews** 

2021-23 Water Rate Open House

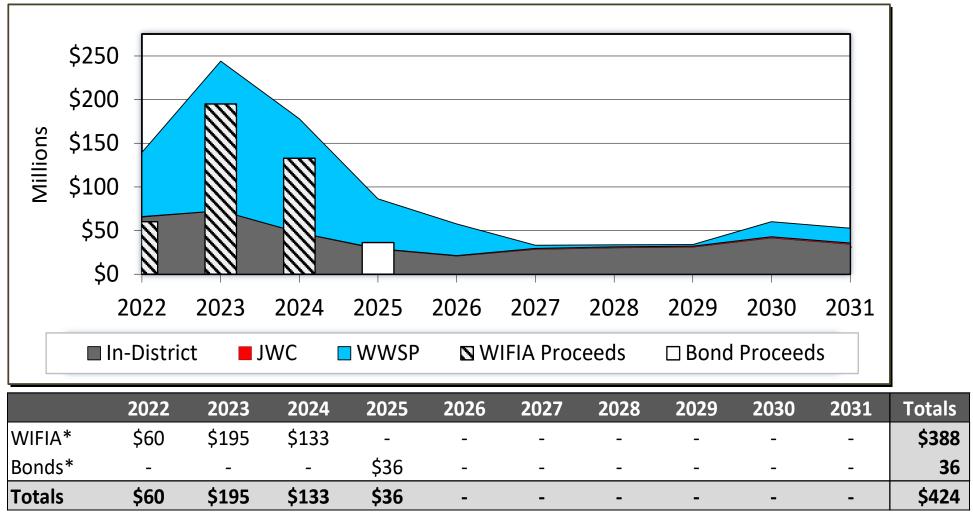
## **CAPITAL EXPENDITURE BY FISCAL YEAR**



\* TVWD share of projected total costs.



## PLANNED DEBT FINANCING BY FISCAL YEAR



\*Net proceeds for capital expenditures (after issuance costs).



# **RISKS TO THE FORECAST**

#### Higher Costs from Portland

- Costs for treatment facilities
- Changes to peaking factors
- Contract difficulties
- Other O&M and CIP

#### **Interest Rates**

- Loss of tax-exempt bonds
- Reduction in credit rating
- General increase in interest rates

#### Capital Expenditures

- Increase in the rate of inflation
- Timing/unplanned failure
- Project definitions
- Construction costs
- Loss of a partner

#### Others

- Economic downturn
- Changes in water demands
- Annexations with withdrawals
- Curtailment of water sales



### **PROPOSED VOLUME RATES (\$/CCF1)**

Rates (\$/CCF)	Current	Nov 2021	Nov 2022
Block 1	\$5.62	\$6.15	\$6.73
Block 2	\$8.01	\$8.77	\$9.60

<sup>1</sup>One CCF is 100 cubic feet of water or about 748 gallons.

<sup>2</sup> Single-Family Residential Class: Block 1 = Water use up to 28 CCF every two months. Block 2 = All consumption over 28 CCF every two months.

<sup>3</sup> All other classes:

Block 1 = Water use up to 140% of 12-month moving avg. Block 2 = All consumption exceeding the Block 1 threshold.

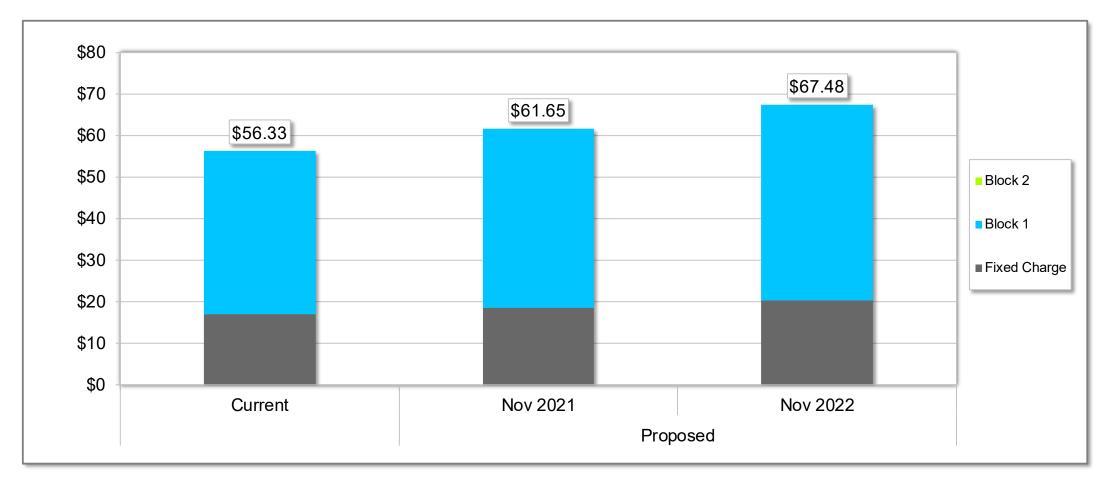


## **PROPOSED FIXED MONTHLY CHARGES**

Meter Size	Current	Nov 2021	Nov 2022
5/8 Inch	\$16.99	\$18.60	\$20.37
3/4 Inch	18.71	20.49	22.44
1 Inch	23.06	25.25	27.65
1.5 Inch	30.99	33.93	37.15
2 Inch	45.71	50.05	54.80
3 Inch	127.27	139.36	152.60
4 Inch	170.53	186.73	204.47
6 Inch	274.83	300.94	329.53



#### CUSTOMER IMPACT FOR PROPOSED INCREASES (TYPICAL CUSTOMER USING 7 CCF<sup>1</sup> PER MONTH)



<sup>1</sup>One CCF is 100 cubic feet of water or about 748 gallons. Typical customer at TVWD uses 7 CCF per month.



#### **CUSTOMER IMPACT** (TYPICAL CUSTOMER USING 7 CCF<sup>1</sup> PER MONTH)

Typical Single-Family Residential Bill			
5/8-Inch Meter	Current	Nov 2021	Nov 2022
Fixed Charge	\$16.99	\$18.60	\$20.37
Volume Charge	\$39.34	\$43.05	\$47.11
Total	\$56.33	\$61.65	\$67.48
Monthly Increase		\$5.32	<b>\$5.83</b> <sup>*</sup>

<sup>1</sup>One CCF is 100 cubic feet of water or about 748 gallons. Typical customer at TVWD uses 7 CCF per month. \*The postcard mailed to customers contained a transposition error.



#### **CUSTOMER IMPACT** (ABOVE AVERAGE CUSTOMER USING 12 CCF<sup>1</sup> PER MONTH)

Above Average Single-Family Residential Bill			
5/8-Inch Meter	Current	Nov 2021	Nov 2022
Fixed Charge	\$16.99	\$18.60	\$20.37
Volume Charge	\$67.44	\$73.80	\$80.76
Total	\$84.43	\$92.40	\$101.13
Monthly Increase		\$7.97	\$8.73

<sup>1</sup>One CCF is 100 cubic feet of water or about 748 gallons.



#### **CUSTOMER IMPACT** (HIGH-USE CUSTOMER USING 28 CCF<sup>1</sup> PER MONTH)

High-Use Single-Family Residential Bill			
5/8-Inch Meter	Current	Nov 2021	Nov 2022
Fixed Charge	\$16.99	\$18.60	\$20.37
Volume Charge	\$190.82	\$208.88	\$228.62
Total	\$207.81	\$227.48	\$248.99
Monthly Increase		\$19.67	\$21.51

<sup>1</sup>One CCF is 100 cubic feet of water or about 748 gallons.







### **CLOSING REMARKS**

**Tom Hickmann** 

2021-23 Water Rate Open House

### **ADDITIONAL OPPORTUNITIES**

Learn More	Public Hearing	Comment Period	Adopt Rates
View Recordings from Sessions #1, #2 #3	<b>Recording from</b> • Wednesday, August 18	<ul> <li>Online Form</li> <li>Email <u>Board@tvwd.org</u></li> <li>Mail to Headquarters</li> </ul>	Virtual <ul> <li>Wednesday, September 15</li> <li>6:00 pm</li> </ul>
Tualatin Valley Water District's YouTube Channel	• 6:00 pm Tualatin Valley Water District's YouTube Channel	Closes: August 25 at 4 pm	Participate: • Debbie.Carper@tvwd.org

#### www.tvwd.org/rates for details, links



#### YOUR TURN! ANY QUESTIONS?



Tom Hickmann, PE Chief Executive Officer



Dave Kraska, PE Willamette Water Supply Program Director



Paul Matthews Chief Financial Officer

