

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

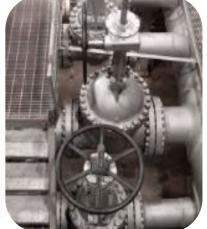


River water

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

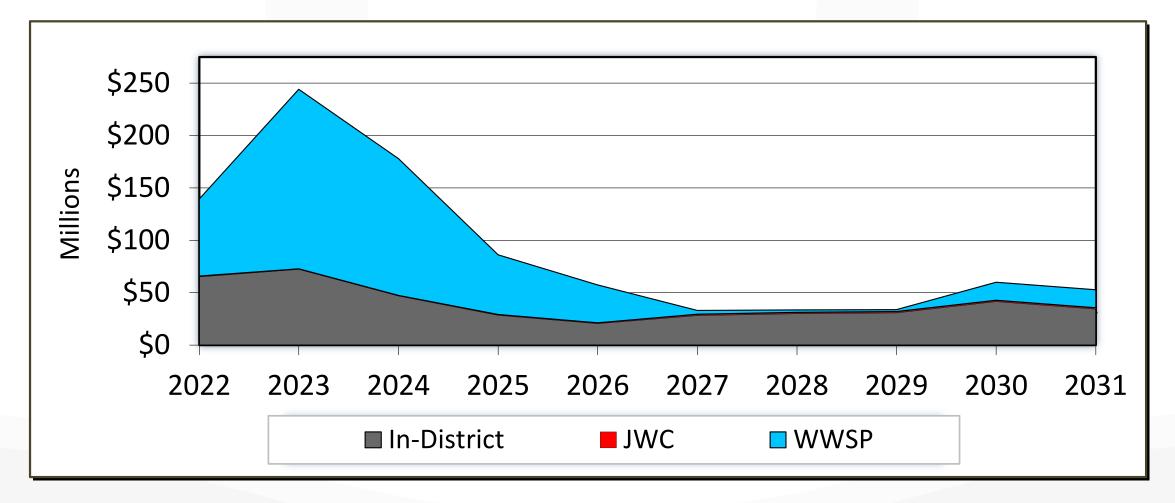




Purchased Water



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

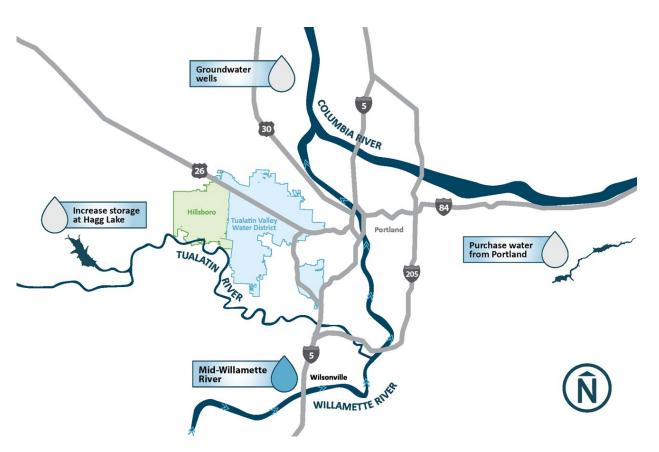


LONG-TERM WATER SUPPLY SELECTION

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.







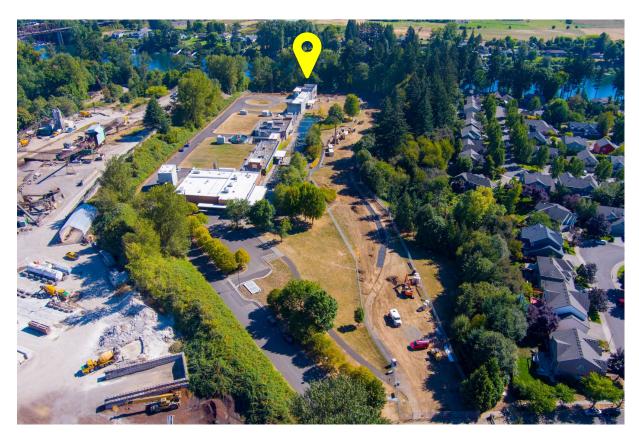


WWSS OVERVIEW

- 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

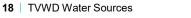




WILLAMETTE INTAKE FACILITIES







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.







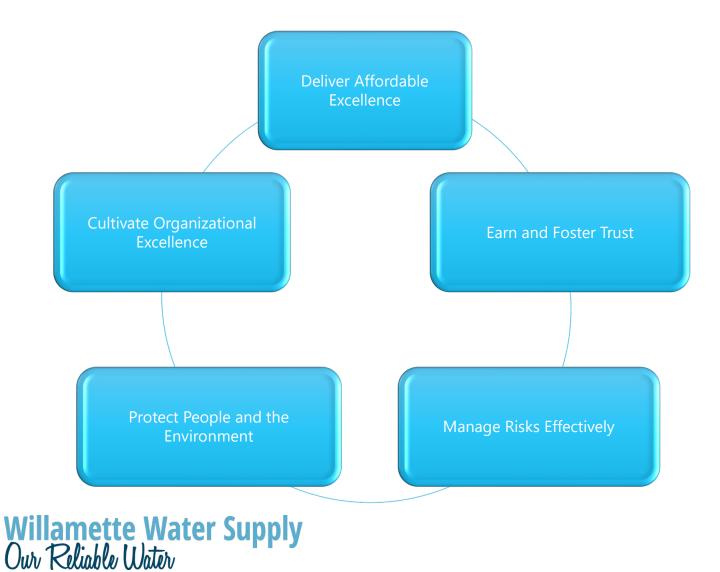


Water storage tanks hold water to be delivered to homes and businesses by gravity and provide emergency storage.

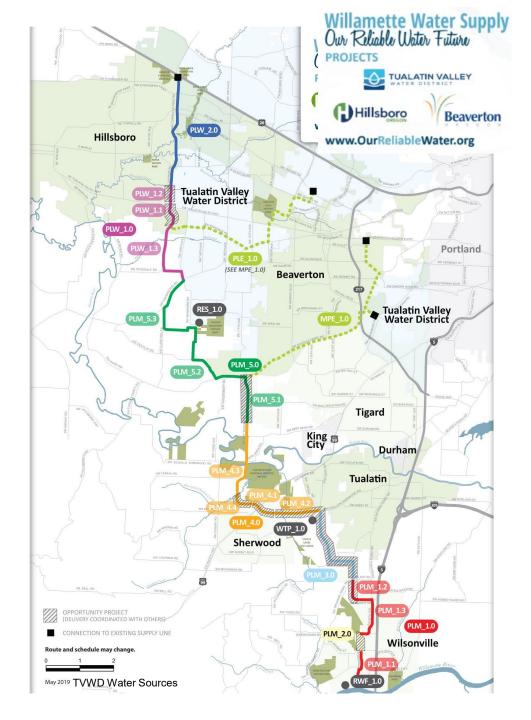
> Willamette Water Supply Our Reliable Water



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







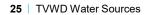
24 | TVWD Water Sources



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







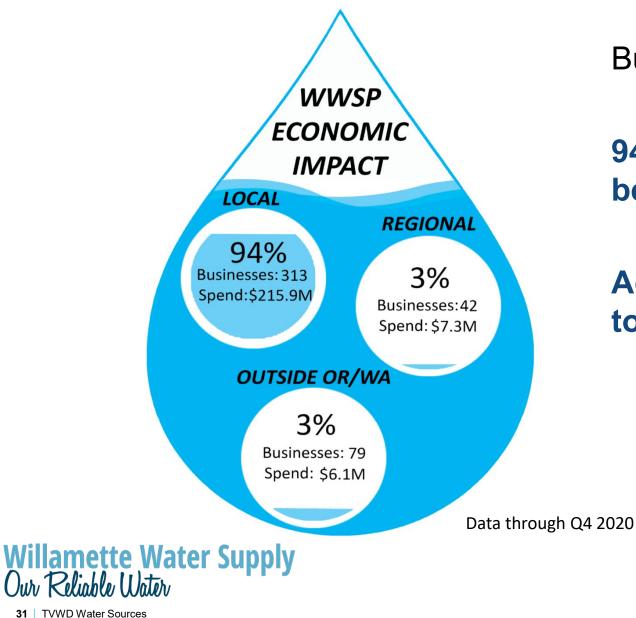
NIGHTTIME CONSTRUCTION CROSSING 209TH AVE







SUPPORTING OUR ECONOMY



Business Utilization: Recent Activities

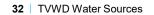
94% of spend for WWSS is benefitting the local economy

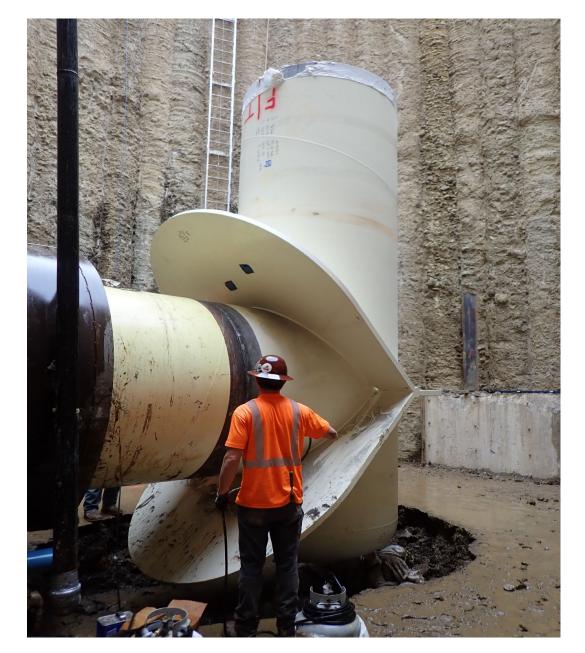
Added 69 local businesses during Q3 to Q4 2020 reporting period



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		4 4					
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 			
	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

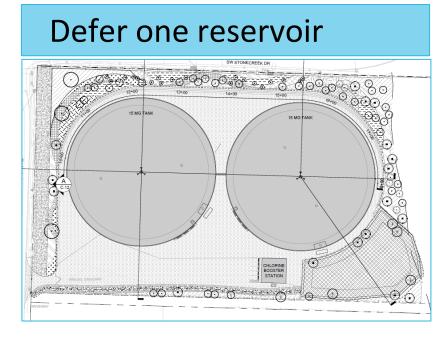


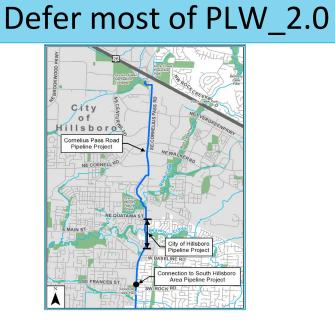
- Revenues suffering pandemic-related challenges
- Costs have increased since Baseline 5.2
- Acknowledge that all design done within one year
 - Last opportunity to make changes before everything is in construction
- **36** | TVWD Water Soulices



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

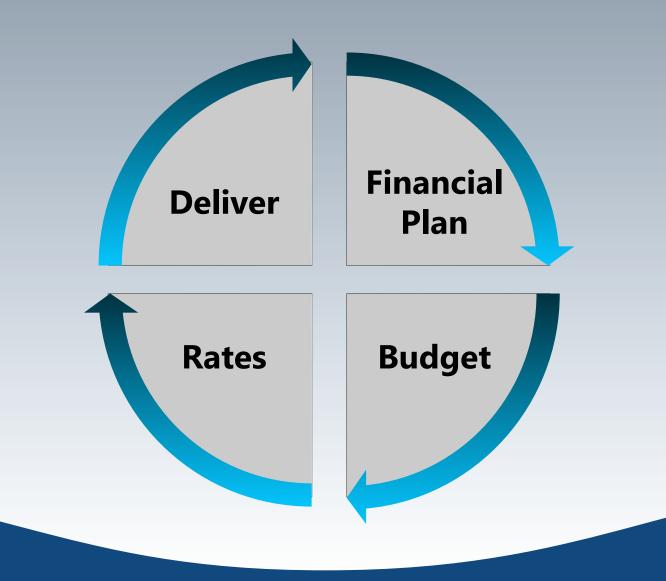
Chief Financial Officer

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



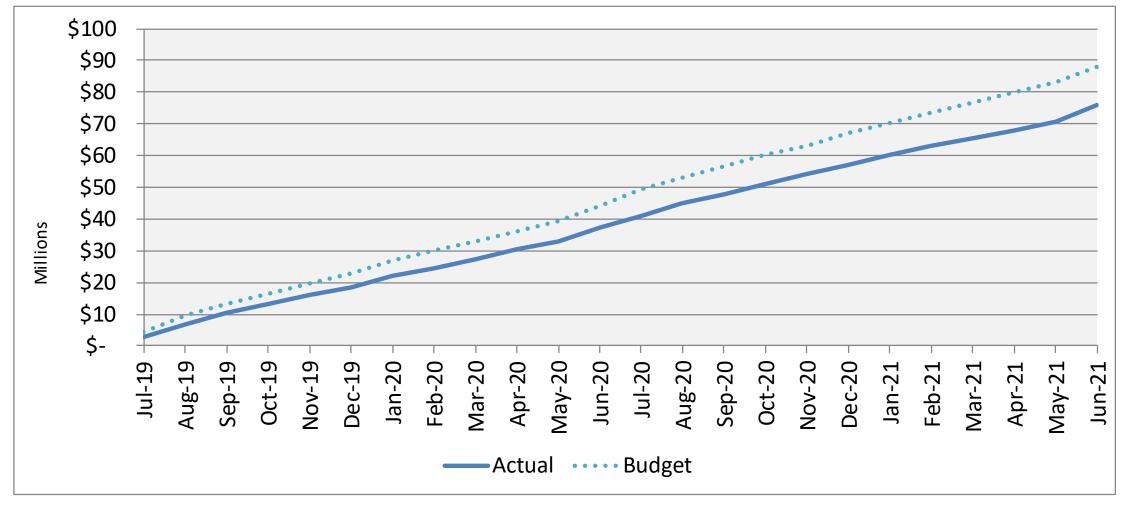




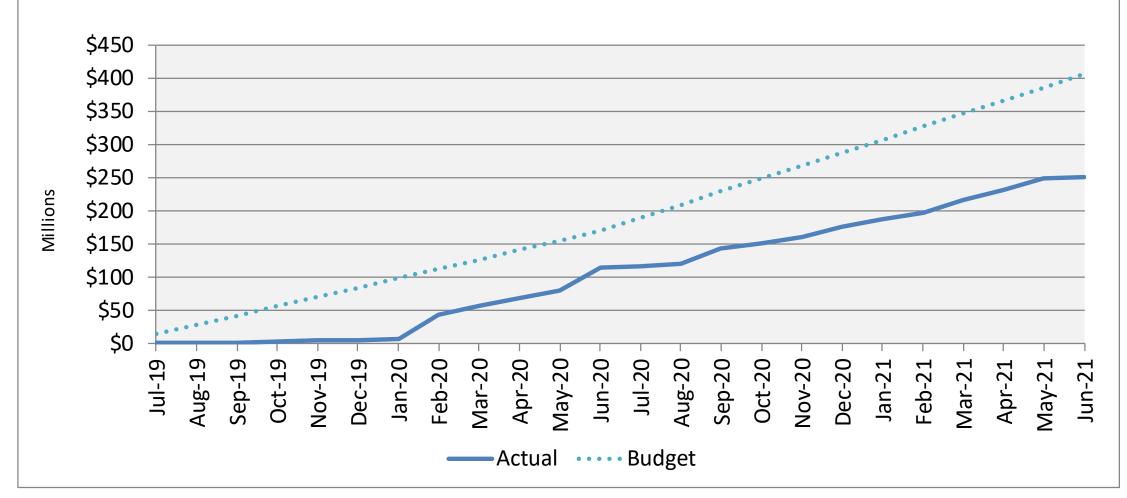


2019-21 FINANCIAL PERFORMANCE

CUMULATIVE OPERATING EXPENDITURES

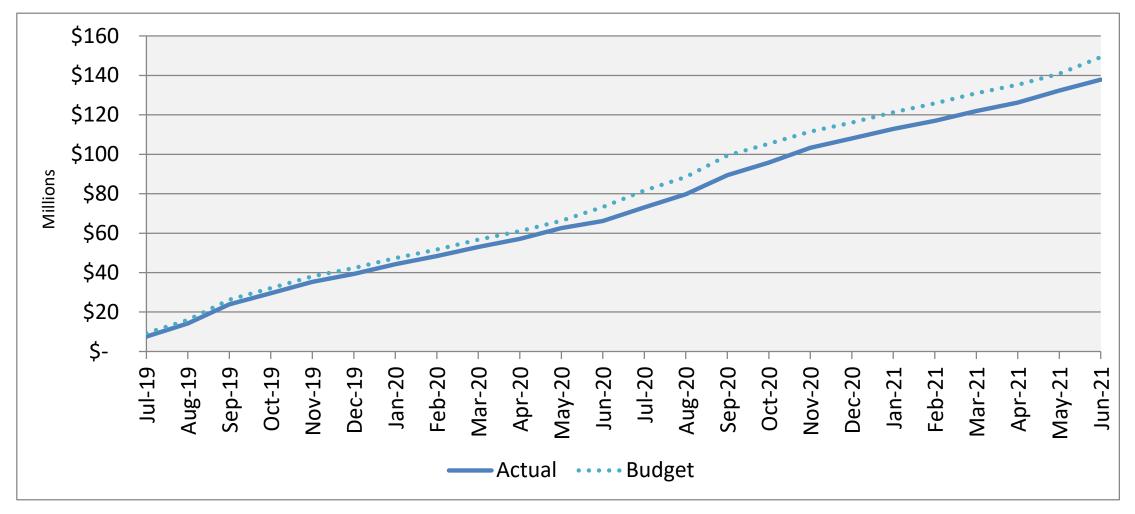


CUMULATIVE CAPITAL EXPENDITURES

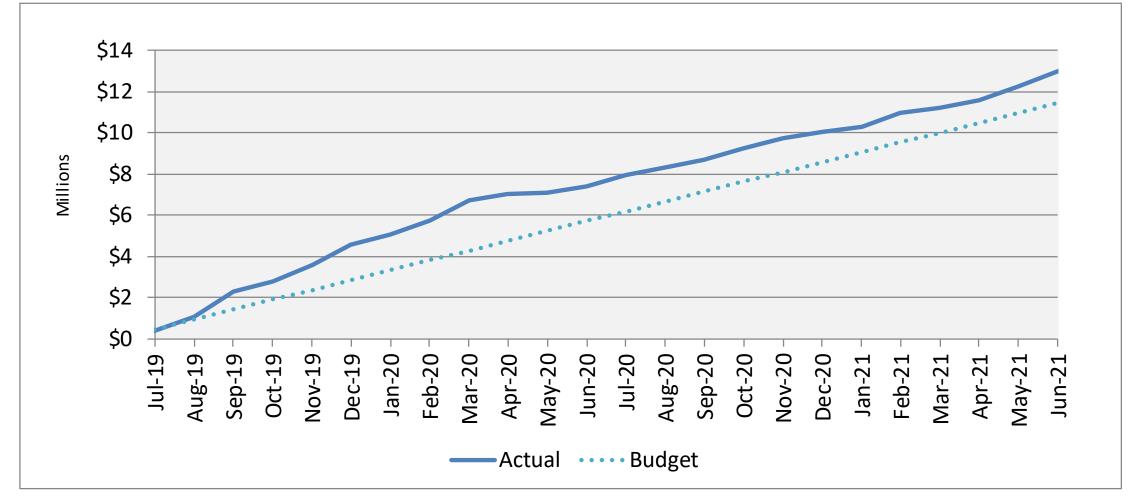




CUMULATIVE WATER SALES REVENUE



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





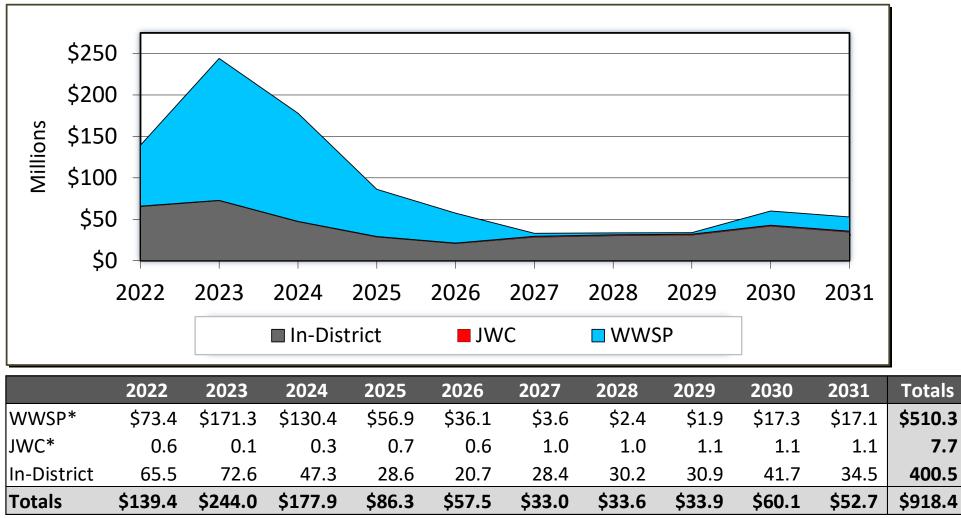


FINANCIAL PLAN AND PROPOSED RATES

Paul Matthews

2021-23 Water Rate Open House

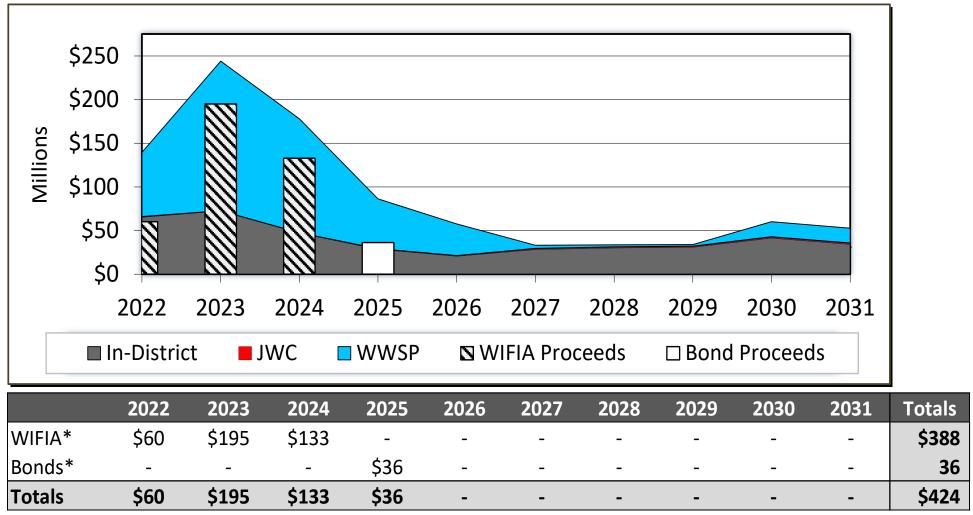
CAPITAL EXPENDITURE BY FISCAL YEAR



* 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

¹One CCF is 100 cubic feet of water or about 748 gallons.

² 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.

³ All other classes:

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

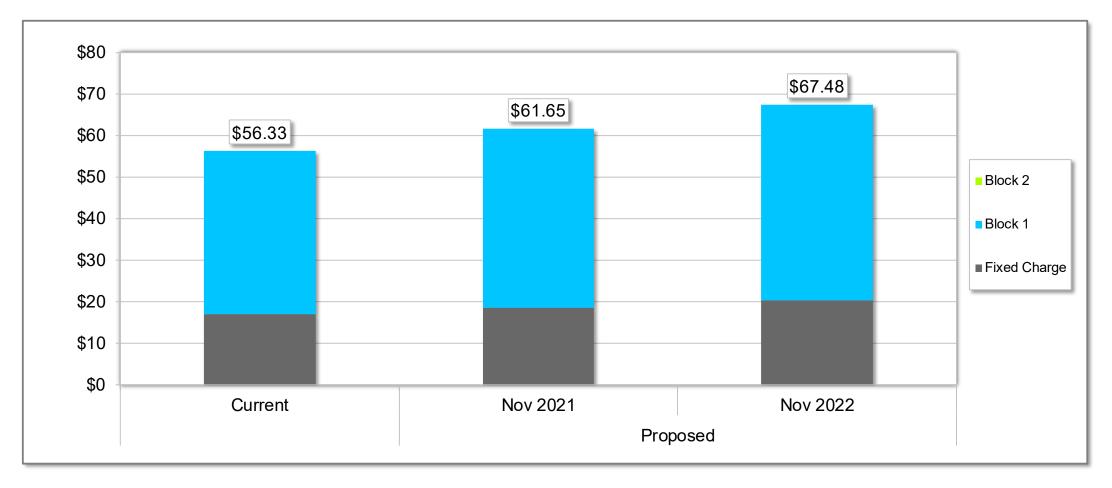


PROPOSED FIXED MONTHLY CHARGES

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 CCF¹ PER MONTH)



¹One 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 CCF¹ 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	\$5.83 [*]

¹One 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 CCF¹ 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

¹One CCF is 100 cubic feet of water or about 748 gallons.



CUSTOMER IMPACT (HIGH-USE CUSTOMER USING 28 CCF¹ 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

¹One 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	Recording from • Wednesday, August 18	 Online Form Email <u>Board@tvwd.org</u> Mail to Headquarters 	Virtual Wednesday, September 15 6:00 pm
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

