

Agenda

- 1) Study Background
- 2) Financial Plan
- 3) Proposed Rate Adjustments & Impacts

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2018 Water Rate Study Background

Previous water rate study completed in 2013

Drivers for current study:

- ✓ Schedule: Last adopted rate schedule ended in 2018
- ✓ Legal: Recent court decisions have "raised the bar" for transparency and cost-of-service requirements for water rates (Prop 218).
- ✓ Revenue Short-Falls:
 - ✓ Recent drought
 - ✓ Relatively low fixed revenue
 - √ Static "pass-through" policy
- ✓ System Needs: Fullerton continues to experience above-average water pipe breaks.

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2018 Water Rate Study Approach

- Rate analysis developed by consultant in collaboration with City staff
- 2. Ad Hoc Committee and public engaged to review and revise recommendations
 - 8 workshops to shape capital investment approach and rate structure
 - Evening meeting to allow for more public input
 - Public invited to attend all Ad Hoc Committee meetings
- 3. Recommendations to City Council (two meetings)
- 4. Public Hearing (tonight)

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Water Rate Ad Hoc Committee

- The Rate Study Ad-Hoc Committee is made up of 6 at-large members from the Energy and Resource Management Committee (ERMC) and the Citizens Infrastructure Review Committee (CIRC).
- The Ad Hoc Committee was formed to actively participate in:
 - Reviewing and providing input to proposed water rate structure changes and rate increases.
 - · Representing not only ratepayers but also owners of the water system.

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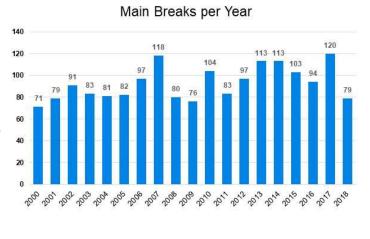
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Financial Plan

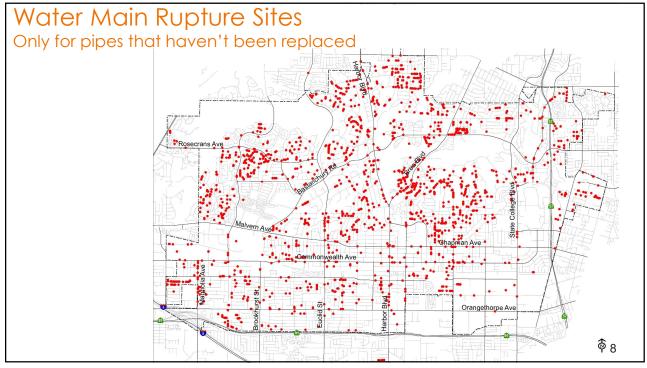
Water Main Break History

- Over 50% of pipelines are older than 50 years old (past the expected useful life)
- Highest rate of water main breaks in Orange County
- Water main breaks disrupt service to all customers
 - Repair shutdowns can affect over 1,000 customers for 5 - 8 hours
 - Unsettling to residential customers
 - · Economic impact on businesses
- Repair of failed pipes is significantly more expensive than "proactive" repair of aging pipes
- Water main break costs range from \$5,000 to \$20,000 (or more) per event.



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Non-Pipeline Projects (FY 2019-2024)

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Wells

Rehabilitate two wellsReplace two wells

Reservoirs

· Rehabilitate two reservoirs

Booster Pump Station

 Rehabilitate two booster pump stations and associated electrical equipment

Miscellaneous

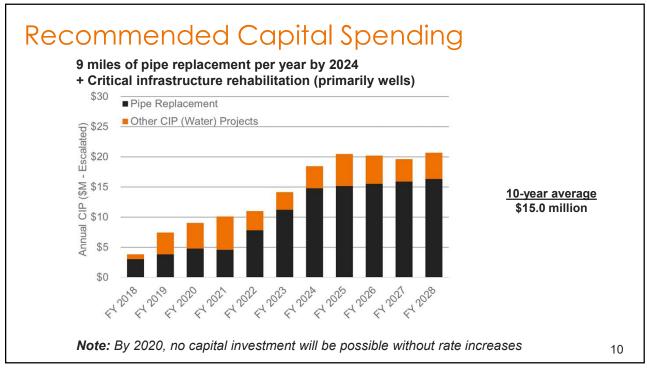
- Isolation Valve Replacement
- Emergency Generators
- · SCADA Upgrades
- Water Master Plan

12 critical projects identified by staff

Note: Projects subject to change based on Water Master Plan findings

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Proposed rate revenue increases

9 miles of pipe replacement per year by 2024

+ Critical infrastructure rehabilitation (primarily wells)

**	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	And inflationary
Rate Revenue: Increase (%)	\$37.9 M 15.0%	\$41.2 M 14.0%	\$45.7 M 11.0%	\$48 M 5.0%	\$49.9 M 4.0%	increases forecasted thereafter

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Customer Classes

Existing

Classification

- Single Family Residential
- Multifamily Residential
- Commercial
- Industrial
- Fire Line*
- Temporary Water*
- Municipal
- Agricultural
- · Residential/Agricultural
- Residential Landscape
- Single Family with Fire Sprinkler
- Multifamily with Manual Rubbish

Proposed

Acco	unts
· · · · · · · · · · · · · · · · · · ·	85.0%
1,913	6.2%
1,974	6.4%
115	0.4%
2	0.01%
399	1.3%
257	0.9%
	1,913 1,974 115 2 399

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Current Rates

Fixed Meter Charge:

- Based on meter size
- 22.4% fixed revenue (relatively low)

Meter Size	Monthly
MELEI 312E	Rate
5/8" & 3/4"	\$14.78
1"	\$17.74
1 1/2"	\$32.52
2"	\$45.82
3"	\$79.81
4"	\$113.81
6"	\$180.32
8"	\$302.99
10"	\$441.92
12"	(na)

* Two month billing cycles; double the tier allocation per billing cycle

Water Usage Rates:

3 tiers for single family and multi-family

	Currer	nt Tiered Rates Re	esidential
Tier	Rate (per TGAL)	Monthly Allocation* (Single Family)	Monthly Allocation* (Multi-Family) (per unit)
1	\$3.213	7,500 gal.	4,000 gal.
2	\$3.510	12,500 gal.	6,000 gal.
3	\$3.799	(na)	(na)

Uniform water usage rates for all other customers:

Commercial: \$3.075 / TGAL Industrial: \$3.130 / TGAL Municipal: \$2.440 / TGAL Agricultural: \$3.403 / TGAL Landscape: \$3.767 / TGAL

(TGAL = thousand gallons)

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^{*} Excluded from Proposed list. Not part of typical customer and usage base.

Proposed Rate Design Approach

1) Implement Water Meter Equivalency Schedule

- More equitable
- Larger meters will be affected

2) Enhance connection between water rates and the cost to provide water service

- Tied directly to the cost of purchased and pumped water
- Results in increase in fixed revenue from 22.1% to 40.7%

3) Establish a *dynamic* Pass-Through policy:

• Ensures that pass-through increases are directly proportionate to the increase in costs

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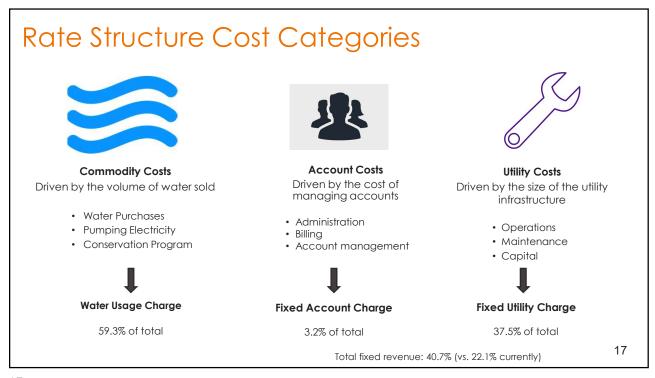
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Establish Water Meter Equivalency Schedule

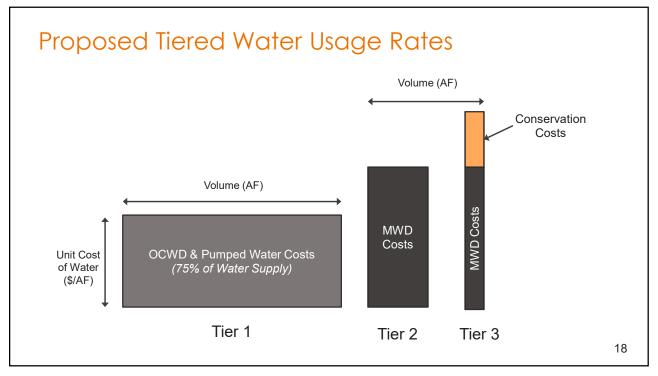
Meter Size	Existing Ratio	Proposed Equivalency Schedule ⁽¹⁾	Rated flow in gallons per minute
5/8" & 3/4" (2)	1.00	1.00	30
1"	1.20	1.67	50
1 1/2"	2.20	3.33	100
2"	3.10	5.33	160
3"	5.40	10.67	320
4"	7.70	16.67	500
6"	12.20	33.33	1,000
8"	20.50	53.33	1,600
10"	29.90	80.00	2,400
12"	47.60	112.50	3,375

⁽¹⁾ Source: Table B-1, Appendix B, AWWA M1 Manual, 7th Ed.

⁽²⁾ Combined per the City's historical practice and common industry practice



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Pass-Through Formula

Recommendations:

- Adopt a pass-through policy that dynamically responds to *actual* changes in water supply costs
- Increase transparency in the pass-through process

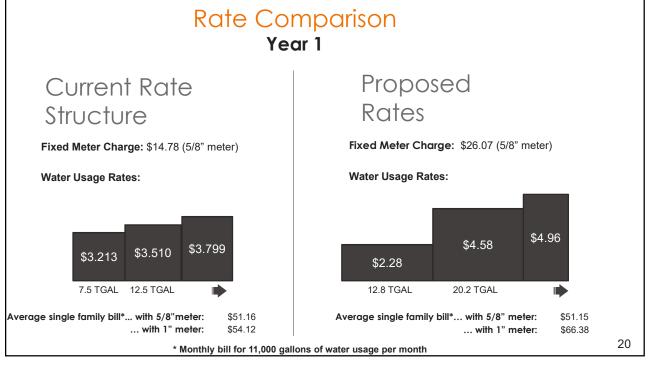
Tier 1 Rate Adjustment
$$\left(\frac{\$}{TGAL}\right)$$
 = Change in OCWD Unit Costs $\left(\frac{\$}{TGAL}\right)$

Tier 2 Rate Adjustment $\left(\frac{\$}{TGAL}\right)$ = Change in MWD Unit Costs $\left(\frac{\$}{TGAL}\right)$

Tier 3 Rate Adjustment $\left(\frac{\$}{TGAL}\right)$ = Change in MWD Unit Costs $\left(\frac{\$}{TGAL}\right)$

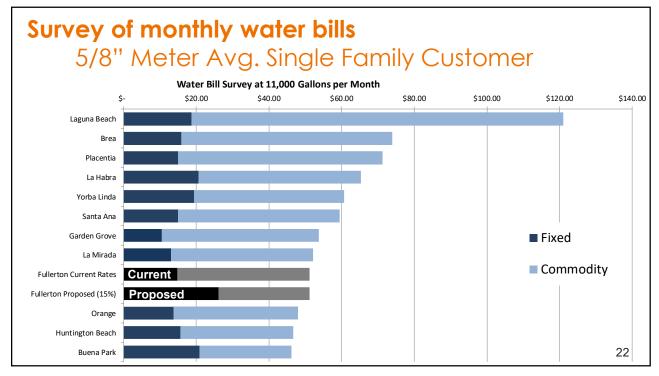
Uniform Rate Adjustment $\left(\frac{\$}{TGAL}\right)$ = Tier 1 Rate Adjustment $\left(\frac{\$}{TGAL}\right)$ x 75% + Tier 2 Rate Adjustment $\left(\frac{\$}{TGAL}\right)$ x 25% (i.e. the weighted average of the adjustments to the tiered rates)

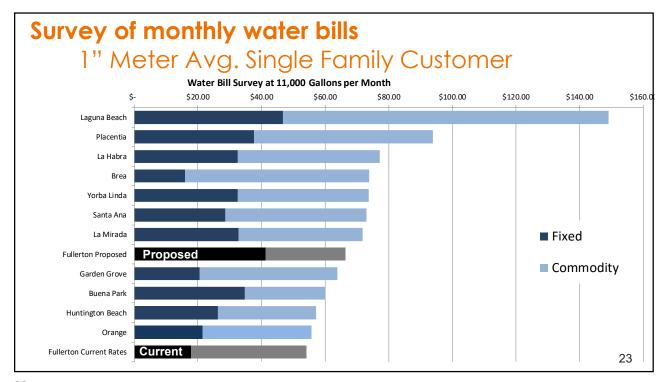
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Proposed Rates in Year 1 **Current Tiered Rates Residential** Monthly Allocation (Multi-Family) Monthly Fixed Meter Charge: (per TGAL) (Single Family) (per unit) 4.000 gal \$3.213 7.500 gal. Current **Proposed** \$3.510 12,500 gal. 6,000 gal Meter Monthly Monthly \$3.799 Size Rate Rate Restructured Tiered Rates Residential 5/8" \$14.78 \$26.07 Monthly Allocation 1" \$17.74 \$41.30 (per TGAL) 1 1/2" \$32.52 \$79.39 \$2.28 12,800 gal 5,100 gal 2" \$45.82 \$125.08 20,200 gal. \$4.58 6,700 gal. 3" \$79.81 \$246.95 \$4.96 (na) (na) 4" Uniform Water Usage Rates for all other customers: \$113.81 \$384.04 Proposed: \$2.88 / TGAL 6" \$180.32 \$764.86 8" \$302.99 \$1,221.84 Current: Commercial: \$3.075 / TGAL 10" \$441.92 \$1,831.15 Industrial: \$3.130 / TGAL 12" \$2,573.75 Municipal: \$2.440 / TGAL (na) Agricultural: \$3.403 / TGAL 21 \$3.767 / TGAL Landscape: * Two month billing cycles; double the tier allocation per billing cycle

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		FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	
Proposed ger	neral increase:	15%	14%	11%	5%	4%	
Single Family Residential 5/8"	Current	Proposed					
Low Volume 5 TGAL/mo	\$30.85	\$37.47	\$42.72	\$47.41	\$49.79	\$51.78	
(with Pass-Through Example)		\$37.47	\$43.22	\$48.41	\$51.29	\$53.78	
Increase over current rates:		\$6.63	\$12.37	\$17.57	\$20.44	\$22.93	
Average Volume 11 TGAL/mo	\$51.16	\$51.15	\$58.31	\$64.73	\$67.96	\$70.68	
(with Pass-Through Example)		\$51.15	\$59.41	\$66.93	\$71.26	\$75.08	
Increase over current rates:		(\$0.01)	\$8.25	\$15.76	\$20.10	\$23.92	
High Volume 80 TGAL/mo	\$310.69	\$380.89	\$434.21	\$481.98	\$506.08	\$526.32	
(with Pass-Through Example)		\$380.89	\$445.57	\$504.70	\$540.16	\$571.76	
Increase over current rates:		\$70.20	\$134.88	\$194.01	\$229.46	\$261.07	
Single Family Residential 1"	Current	Proposed					
Low Volume 5 TGAL/mo	\$33.81	\$52.70	\$60.08	\$66.69	\$70.02	\$72.82	
(with Pass-Through Example)		\$52.70	\$60.58	\$67.69	\$71.52	\$74.82	
Increase over current rates:		\$18.90	\$26.77	\$33.88	\$37.72	\$41.02	
Average Volume 11 TGAL/mo	\$54.12	\$66.38	\$75.67	\$84.00	\$88.20	\$91.72	
(with Pass-Through Example)		\$66.38	\$76.77	\$86.20	\$91.50	\$96.12	
Increase over current rates:		\$12.26	\$22.65	\$32.07	\$37.37	\$42.00	
High Volume 80 TGAL/mo	\$313.65	\$396.12	\$451.58	\$501.25	\$526.31	\$547.37	
(with Pass-Through Example)		\$396.12	\$462.94	\$523.97	\$560.39	\$592.81	
Increase over current rates:		\$82.47	\$149.28	\$210.32	\$246.74	\$279.15	

Rate Study Achievements

- ✓ Established standard meter equivalency schedule to be more equitable
- ✓ Enhanced connection between water rates and the cost to provide water service
- ✓ Increased revenue stability through higher fixed rates
- ✓ Proposed rate increases to meet the needs of system deficiencies
- ✓ Established a *dynamic* policy to "pass-through" increases in wholesale water costs

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Next Steps

- √ Council deliberation
- ✓ Public comment
- √ Tally of protest votes
- √ Council vote (if majority protest doesn't exist)
- √ Rates effective July 1 (if passed)