GARDEN GROVE WATER RATE STUDY December 14, 2017 6:00 pm to 8:00 pm Water System Description and Water Rates

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Presentation Outline

1. Why Are We Here Today?

- 2. Your Water System
- 3. What Your Water Rates Pay For
- 4. Necessary Repairs and Capital Projects
- 5. Customer Participation
- 6. Your Water Bill
- 7. Next Steps







Why Are We Here Today?

- Mission and Vision Statement
- Water Rate Study
 - How the City pays for expenses
 - How much water system repairs and improvements will cost
 - How to equitably charge customers for the services they receive
- Educate customers about the Water System
- Customer Water Bill





Our Mission and Vision

- "The mission of the City of Garden Grove is to provide responsible leadership and quality services as we promote safety, cultural harmony, and life enrichment."
- The vision of Garden Grove is to be a safe, attractive, and economically vibrant city with an informed and involved public. We are a diverse community that promotes our unique attributes and preserves our residential character.
 - To preserve our local quality of life, keep our residents tax dollars local, and provide the services we need to make our city a desirable place to live, visit, and do business, no matter what happens with the state or federal governments.
- "The goal of the Water Services Section is to provide sufficient and safe water at the lowest possible cost to the City's residents."
 - Above all else, our goal is to protect local drinking water supplies, especially for residences and local parks





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Garden Grove Water System

- 17 total water production facilities
- 13 wells
- 5 pump stations
 - As old or older than reservoirs
- 8 reservoirs holding 53 million gallons of water
 - Combined, same volume as a football field, 125 feet deep
 - Most are well over 40 years old
 - Newest is over 20 years old
- 433 miles of pipe
 - ~ distance from Garden Grove to San Francisco
 - 40% is over 60 years old





Garden Grove Water System

- 34,000 service connections
- Value of City-owned water infrastructure:
 - \$138.8 million (gross plant value: cost of each facility when it was built)
 - Between \$400 and \$800 million (estimated cost to replace system in today's dollars)





Westhaven Reservoir and Pump Station





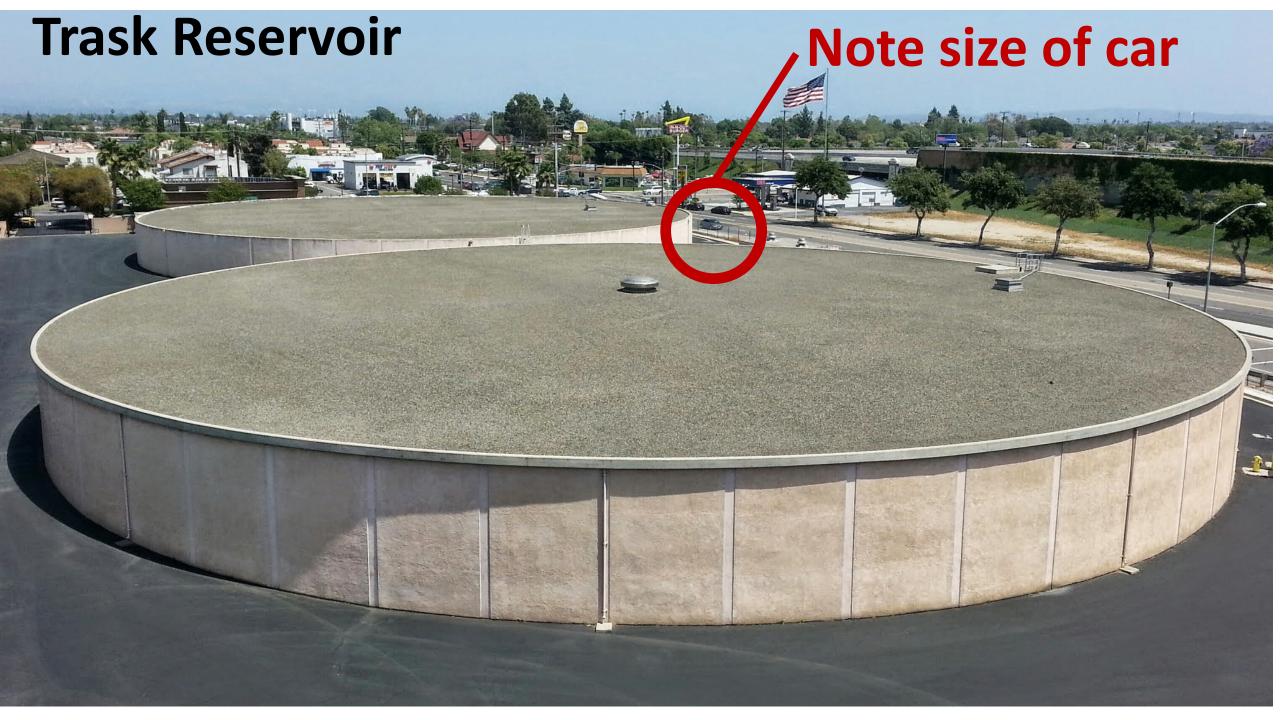


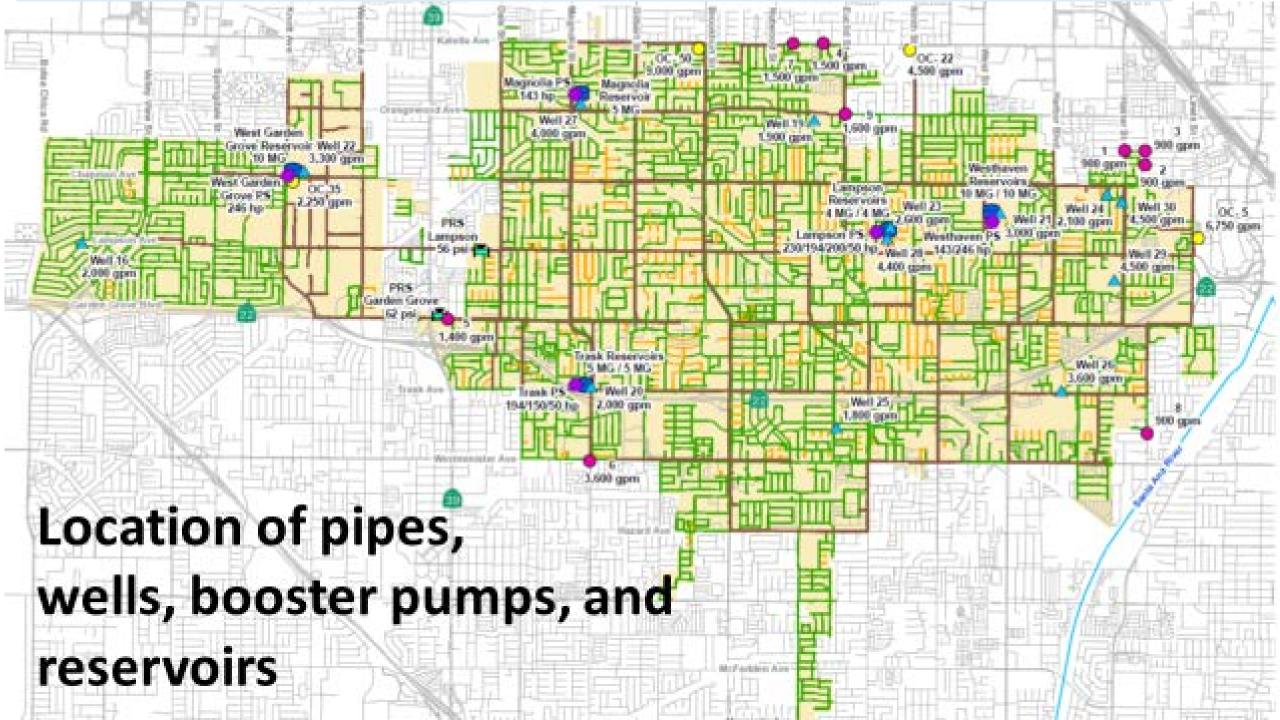
Westhaven Reservoir and Pump Station





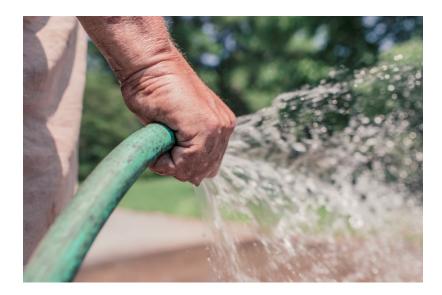






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Current Water Bill

- Water bills are sent out every two months. Each bill contains:
 - Minimum Charge: \$12.74 for most customers, plus
 - Capital Improvements Charge: \$1.47 for most customers, plus
 - Commodity Delivery Charge:
 - Depends on water use
 - Four tiers
 - 1st Tier: \$3.07 per hundred cubic feet
 - A portion of the Commodity Delivery Charge is a pass through of water supply costs which is adjusted annually.
 - Remainder of water rates have not been adjusted since 2007, phased in over 5 years
- Low water user discount: low water users only pay the Minimum Charge (less than 3 hundred cubic feet per month)

Average residential customer uses 15 hcf/month resulting in \$54 in water charges per month





How much water is 15 hcf?



Answer: 75 5-gal bottles every day





FY 16/17 Financial Status: **Revenue and Expense Comparison, \$M**

Revenues from Rates Other Revenues **Total Revenues**

O&M Expenses **Debt Service Replacement Projects Capital Projects Total Expenses**

Surplus (Deficit)

 About half of O&M expenses is for \$32.08 \$0.47 \$32.55

\$28.00

\$2.39

water supply. City has no control over these costs.

- On a cash basis, expenditures projected to exceed revenues by \$1.98M
- \$3.16 Utility will spend reserves to pay for \$0.98 capital and portion of replacement \$34.53 projects (\$1.98)

GARDEN GROVE



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Water System Upgrades and Replacements

• Anticipated water system needs:

- Reservoir rehabilitation projects
- Replace small diameter water mains with larger ones: improved fire flows and public safety
- Well rehabilitation projects
- SCADA/Fiber communications project
- Natural gas engines on pumps
- Ongoing replacement of facilities as they age:
 - Water meters
 - Fire hydrants
 - Valves
 - Pipe





Capital Improvement/Facilities Plan: Immediate Priority Projects

- Recurring Replacements
 - Service lines
 - Fire hydrants
 - Flow meters
 - Important to realize revenue
 - Determine lost and unaccounted for water
 - Valves
 - System appurtenances







Capital Improvement/Facilities Plan : Immediate Priority Cost Summary (2017-2022)

Category	Project Name	Cost (dollars)
Recurring Replacements	Service Lines, Fire Hydrants, Meters, Valves, and Appurtenances	\$17,537,415
Wells	Well Condition Assessment & Rehabilitation	\$933,257
Reservoirs	Reservoir Rehabilitations	\$16,272,538
Boosters	Potable Back-up Generators	\$1,047,510
Studies	Master Plan Update	\$450,000
Studies	Asset Management Study	\$227,347
Studies	Cyber Security	\$175,000
Total		\$36,643,067



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Why Is A Rate Increase Needed?

- Provide sufficient and safe water at the lowest possible cost
- Maintain our water infrastructure
- Less expensive to maintain than to do emergency repairs
- Capital Improvements





How Customers Can Participate in the Process

- Proposition 218
- Comment forms available tonight



Website <u>https://www.ci.garden-grove.ca.us/pw/water-rate-study</u>

• Water Rate Study Hotline: (714) 741-5520





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Rate Structure: Review Current Rate Structure

- Minimum Charge: depends on meter size; \$12.74 every two months for most customers
- Capital Recovery Charge: depends on meter size; \$1.47 every two months for most customers
- Commodity Charge: depends on water use.





FY 16/17 Financial Status: Reserves, \$M

Projected End of Fiscal Year 16/17 Some reserves are dedicated for:	\$18.3 M
Two months of cash flow \$500,000 for Emergency Contingency 5% of Net Plant	\$ 1.3 M \$ 0.5 <u>\$ 7.2</u>
Total, Dedicated Reserves	\$ 9.0 M



Reserves Available for Capital, Replacement \$ 9.3 M

With no rate increase, available reserves will be used up in 1-2 years, depending on amount of replacement and capital spending; Capital Improvement/Facilities Plan will not get implemented.





Proposed Fixed Charges:

- Increased Minimum Charge and Capital Improvement Charges to improve fiscal stability of utility
- Phased in over 5-years
- Provides funds to build necessary reservoir improvements and ongoing system repairs
- Increased Costs for all water customers
 - Mitigated by proposed Low Income Senior Discount





Proposed Minimum Charges Bi-Monthly

	Current		Propos	ed Minimum (Charges	
Meter Size	Charge	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22
5/8 x 3/4"	\$12.74	\$18.02	\$28.15	\$29.63	\$31.95	\$33.85
1"	\$33.99	\$38.11	\$46.03	\$47.18	\$49.00	\$50.48
1 1/2"	\$65.82	\$68.92	\$74.86	\$75.72	\$77.09	\$78.20
2"	\$99.79	\$102.71	\$108.30	\$109.12	\$110.40	\$111.45
3"	\$165.62	\$174.25	\$190.83	\$193.24	\$197.04	\$200.15
4"	\$229.32	\$246.97	\$280.86	\$285.80	\$293.57	\$299.92
6"	\$524.45	\$537.61	\$562.87	\$566.55	\$572.34	\$577.08





Proposed Capital Improvement Charge Bi-Monthly

	Current	Proposed Bi-Monthly Capital Improvement Charge					
Meter Size	Charge	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	
5/8 x 3/4"	\$1.47	\$3.00	\$4.00	\$5.00	\$6.00	\$7.00	
1"	\$2.07	\$7.50	\$10.00	\$12.50	\$15.00	\$17.50	
1 1/2"	\$2.64	\$15.00	\$20.00	\$25.00	\$30.00	\$35.00	
2"	\$4.27	\$24.00	\$32.00	\$40.00	\$48.00	\$56.00	
3"	\$16.29	\$48.00	\$64.00	\$80.00	\$96.00	\$112.00	
4"	\$20.60	\$75.00	\$100.00	\$125.00	\$150.00	\$175.00	
6"	\$30.90	\$150.00	\$200.00	\$250.00	\$300.00	\$350.00	





Commodity Charges:

How the costs (\$/hcf) were calculated

Tier 1	Cost of Locally Produced Groundwater; 75% of Water Use
Tier2	Cost of Imported Water; 25% of Water Use

Imported water costs more to produce than locally produced groundwater.

There is a limit to the amount of Locally Produced Groundwater that can be used.





Proposed Commodity Charges

	Two-Tier Commodity Delivery Charge, \$/hcf					
	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	
Tier 1 Commodity Charge, Excluding Pass Through	\$2.94	\$2.94	\$2.92	\$2.89	\$2.86	
Tier 1 Wholesale Water Purchase Pass Thru Cost Adjustment?		\$0.07	\$0.15	\$0.20	\$0.29	
Tier 2 Commodity Charge, Excluding Pass Through	\$3.65	\$4.06	\$4.15	\$4.28	\$4.40	
Tier 2 Wholesale Water Purchase Pass Thru Cost Adjustment		\$0.08	\$0.17	\$0.25	\$0.28	

Wholesale Water Purchase Pass Thru Cost Adjustment is an estimated value





Proposed hcf Included, Bi-Monthly

	Maximum
Meter Size	hcf, Tier 1
5/8 x 3/4"	33
1"	83
1 1/2"	165
2"	264
3"	528
4"	825
6"	1650

- Proposed hcf maximum in Tier 1 per bimonthly billing period
- hcf above the Tier 1 maximum will be billed at Tier 2 level





Current Private Fire Service Rates

Existing Bi-Monthly Rate

Connection	No. of	Current Rates	Current Capitol C	Current Rates
Size (in)	Connections	Fire Service	Improvemt Fee	Total
5/8 x 3/4"	0	\$11.00	\$1.47	\$12.47
1"	0	\$11.00	\$2.07	\$13.07
1 1/2"	3	\$11.00	\$2.64	\$13.64
2"	69	\$11.00	\$4.27	\$15.27
3"	3	\$14.00	\$16.29	\$30.29
4"	106	\$19.00	\$20.60	\$39.60
6"	268	\$29.00	\$30.90	\$59.90
8"	183	\$38.00	\$42.68	\$80.68
10"	9	\$48.00	\$54.54	\$102.54





Proposed Private Fire Service Rates

Connection	No. of		Propose	ed Bi-Monthl	y Rate	
Size (in)	Connections	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22
5/8 x 3/4"	0	\$0.84	\$0.93	\$0.96	\$0.99	\$1.02
1"	0	\$0.84	\$0.93	\$0.96	\$0.99	\$1.02
1 1/2"	3	\$2.43	\$2.70	\$2.79	\$2.89	\$2.99
2"	69	\$5.17	\$5.75	\$5.95	\$6.16	\$6.38
3"	3	\$15.02	\$16.72	\$17.31	\$17.92	\$18.55
4"	106	\$32.01	\$35.63	\$36.88	\$38.17	\$39.51
6"	268	\$93.00	\$103.51	\$107.13	\$110.88	\$114.76
8"	183	\$198.18	\$220.57	\$228.29	\$236.28	\$244.55
10"	9	\$356.40	\$396.67	\$410.55	\$424.92	\$439.79

- Fire Service customers will no longer pay the Capital Improvement Charge
- Private Fire Service rates to increase at the same rate as overall water rate increases, through FY 21/22





Current Low-Water User Discount

- Eligibility Criteria:
 - Single-Family household that uses 6 hcf or less per billing period
- Low-Water User
 - Exempt from paying Capital Improvement Charge
 - Exempt from paying Commodity Charge





New Low-Water User Discount

- Eligibility Criteria:
 - Single-Family household that uses 6 hcf or less per billing period
- Low-Water User
 - Exempt from paying Commodity Charge
- City Council must approve prior to implementation
- To be implemented June 2018





Low-Income Senior Discount

- Eligibility Criteria:
 - Resident that lives at the billing address
 - Bill must be in the Resident's name
 - 65 years or older
 - Enrolled in SCE's CARE Program
- City Council must approve prior to implementation





Low-Income Senior Discount Proposed Implementation

- Use Water Utility Non-Rate Revenues
 - Estimated at \$350,000 per year from late fees
- Initially offer \$5/month, (\$10/billing period) discount
- Evaluate during first year:
 - How many customers sign up
 - Whether discount can be increased in subsequent years
- Proposed Discount to begin June 2018





Water Bill Comparisons: Average Single-Family Residence

Single Family, 30 hcf Bi-Monthly Water Use							
		Cumulative					
Current	3/1/2018	1/1/2019	1/1/2020	1/1/2021	1/1/2022	% Increase	
\$106.31	\$109.22	\$120.35	\$122.23	\$124.65	\$126.65	\$20.34	
% Change	2.7%	10.2%	1.6%	2.0%	1.6%	19.1%	





Water Bill Comparisons: Single-Family Residence 7 hcf Bi-Monthly

Single Family, 7 hcf Bi-Monthly Water Use							
		Two-Tier Increasing Block Rate					
Current	3/1/2018	1/1/2019	1/1/2020	1/1/2021	1/1/2022	Increase	
\$35.70	\$41.60	\$52.73	\$55.07	\$58.18	\$60.87	\$25.17	
% Change	16.5%	26.8%	4.4%	5.6%	4.6%	70.5%	





Water Bill Comparisons: 50-Unit Apartment Building, 3" Meter

Multi-Family 50-Units, 12 hcf/month per unit							
		Two-Tier Increasing Block Rate					
Current	3/1/2018	1/1/2019	1/1/2020	1/1/2021	1/1/2022	% Increase	
\$4,107.53	\$4,227.37	\$4,535.47	\$4,603.80	\$4,695.12	\$4,779.03	\$671.50	
% Change	2.9%	7.3%	1.5%	2.0%	1.8%	16.3%	





Water Bill Comparisons: Example Commercial, 2" Meter

E	Example Commercial,	, 500 hcf	^F Bi-Monthly	Water Use	

		Cumulative				
Current	3/1/2018	1/1/2019	1/1/2020	1/1/2021	1/1/2022	Increase
\$1,698.68	\$1,764.27	\$1,874.62	\$1,899.40	\$1,931.44	\$1,960.89	\$262.21
% Change	3.9%	6.3%	1.3%	1.7%	1.5%	15.4%





Next Steps

- Public engagement
 - Preserve the City's record of public transparency and accountability
 - Preserve the financial viability of our water system.
 - Protect our local water supplies
- Billing system software modifications
- Proposition 218 notification to all customers, anticipated January 2018
- Public Hearing, anticipated February 2018
- Anticipated rate adjustments, if adopted by Council, effective April 1, 2018





Feedback, Questions, Comments?

Thank you for your time.



