



## Purchase of Ultrasonic Water Meters Needed for Large Compound Water Meter Replacements

Riverside Public Utilities

Board of Public Utilities  
January 22, 2018

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### BACKGROUND

1. City of Riverside – roughly 65,000 water customers
2. Most are residential customers with small water meters
3. 480 large meters serving commercial and industrial customers
4. Generate nearly 20-percent of monthly revenues



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## BACKGROUND (CONT.)

- 5. Old meters are mechanical style
- 6. Slow down over time – under report water usage
- 7. Typical life expectancy – 20 years
- 8. 58 meter between 20 and 33 years old



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## BACKGROUND (CONT.)

- 9. Cracks in epoxy seal of counterweight
- 10. Need to replace



*Typical Cracked Epoxy Seal  
in the Counterweight*

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## BACKGROUND (CONT.)

- 11. Ultrasonic meters are more sensitive and require less maintenance
- 12. Octave meters are the only available large ultrasonic meters
- 11. Sole Source approved by the Purchasing Manager



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## PROJECT DESCRIPTION

Replace old mechanical compound water meters with ultrasonic meters



*Typical Mechanical Compound Water Meter Installation*



*Typical Ultrasonic Water Meter Installation*

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## SUMMARY OF METER COSTS

Meter Size (Inch)	Meters > 20 Years Old	Meter Cost (Each)*	Extended Cost
3	2	\$1,473.93	\$2,947.87
4	3	\$2,089.38	\$6,268.14
6	12	\$3,591.66	\$43,099.96
8	35	\$4,595.87	\$160,855.50
10	6	\$8,400.11	\$50,400.69
<b>Totals</b>	<b>58</b>		<b>\$263,572.16</b>



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## RECOMMENDATION

That the Board of Public Utilities approve an expenditure of \$263,600 for the purchase of Master Meter Octave Ultrasonic water meters ranging in size from three-inch to ten-inch from Core & Main LP for large compound water meter replacements at various locations throughout the City of Riverside's water service territory.



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