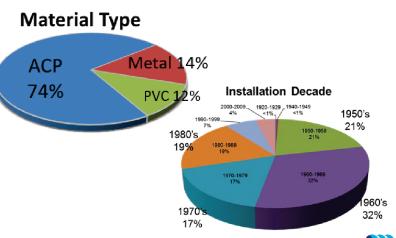


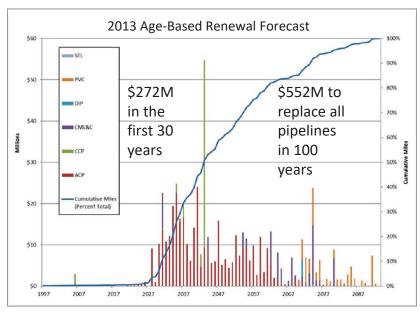
## Pipeline Integrity Program History

2013 Questions: "If we had to replace all of our pipelines in 100 years: How much would it cost? How would we do it? How would we fund it?





## Pipeline Integrity Program History



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Pipeline Integrity Program Goals

- Maximize investment
- Replace at end of Useful Life
- Transparent and Dependable Decision Making

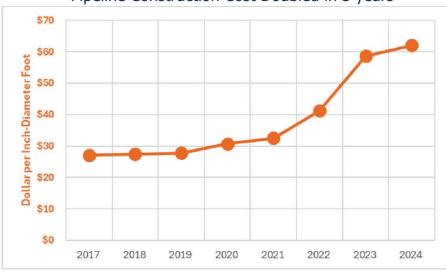
Pipeline Integrity Program is Staff's Implementation of the Board's Replacement of Assets Policy for Pipeline Assets



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## Rapid Escalation in Pipe Renewal Cost Since COVID

Pipeline Construction Cost Doubled in 3 years



### Total Pipeline Replacement Cost

2013: \$0.55BToday: \$1.4B

More important than ever to maximize life

#### Benchmarked Utilities:

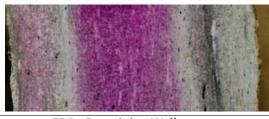
City of Ventura, City of Long Beach, Suburban Water Systems, Irvine Ranch WD, Olivenhain MWD, Rancho California WD, Las Virgenes MWD, San Dieguito WD, Sweetwater Authority, San Juan WD, San Lorenzo Valley WD, City of Bellevue, Vista Irrigation District, and the Port of Long Beach.

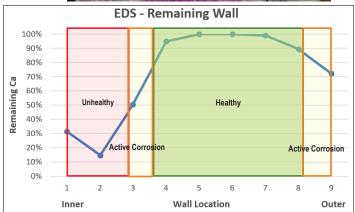
Resolution 1525 Replacement of Assets Break **Mesa Water® Break Rate:** 95% Low Breaks<sup>1</sup> High Breaks<sup>1</sup> 4.6X better than national average Non-Destructive Testing 2.4X better than regional average 20 18 Duration Until Next Break (Years) 16 14 12 Condition Failed<sup>1</sup> 12 14 16 **Break Count** 5 | October 22, 2025

# **Exposed Pipe Testing**

### Past 10 Years

- 133 samples tested
- Average useful life = 143 years
- No Failed Pipe

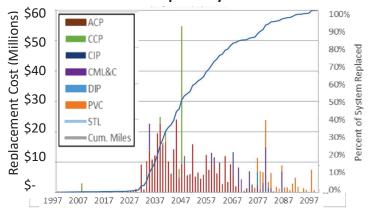




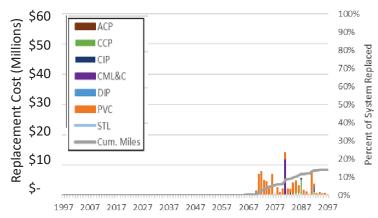


## Updated 100-Year Replacement Cost Curve

# Age based: 50% Replaced by 2043 & 100% Replace by 2097

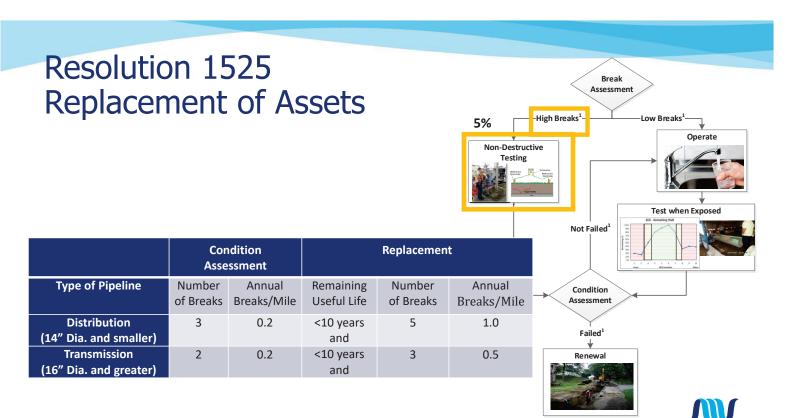


#### Condition based: 15% Replace by 2097



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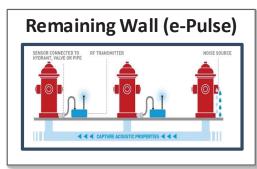
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Resolution 1525 Break Assessment Replacement of Assets High Breaks 5% Non-Destructive Testing Test when Exposed Not Failed1 Assessment Cohort Group Location Length Failed1 (miles) CM-10-D-AC Westside neighborhood 2.0 CM-45-D-AC **Bowdoin Place** 0.2

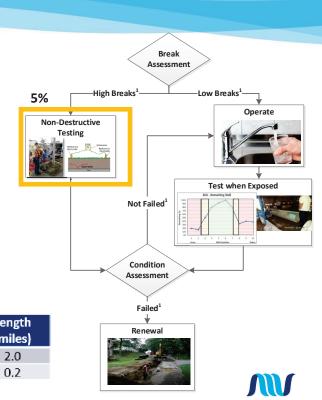
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# Resolution 1525 Replacement of Assets



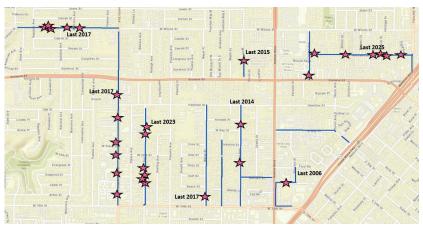
Wall Lost: (25% to 61%)

Cohort Group	Location	Length (miles)
CM-10-D-AC	Westside neighborhood	2.0
CM-45-D-AC	Bowdoin Place	0.2

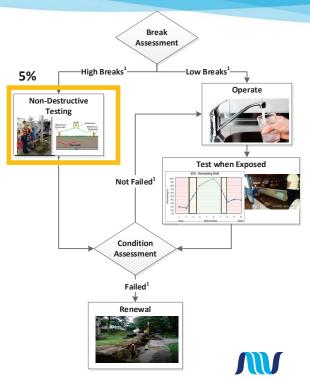


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# Resolution 1525 Replacement of Assets



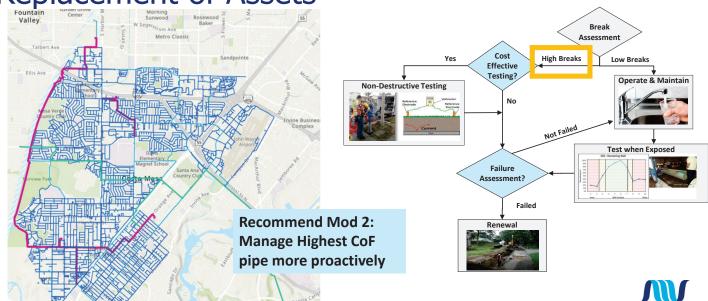
1951 CMLC



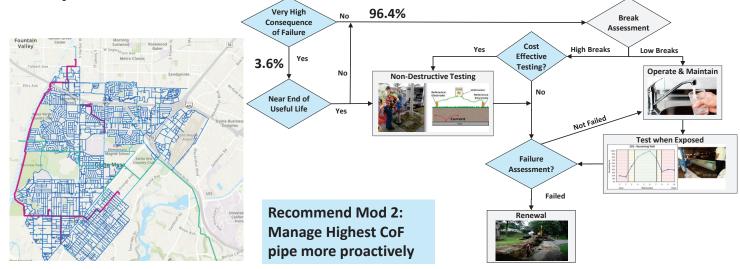
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Proposed Updates to Res 1525 Replacement of Assets



Proposed Updates to Res 1525 Replacement of Assets





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# Summary of Proposed Updates to Res 1525 Replacement of Assets

