



Engineering Division Update

May 2019

Dave Wagner

Engineering Division Manager

Water Sustainability

Performance Measure

Using AWWA standardized auditing to track non-revenue water
2018 non-revenue water rate of 17%
System-wide leak surveying on a four year cycle.

- Website improvements
- Multiple mailings to customers
- Collaborating with Distribution Division for improved customer communication
- Onsite project signage

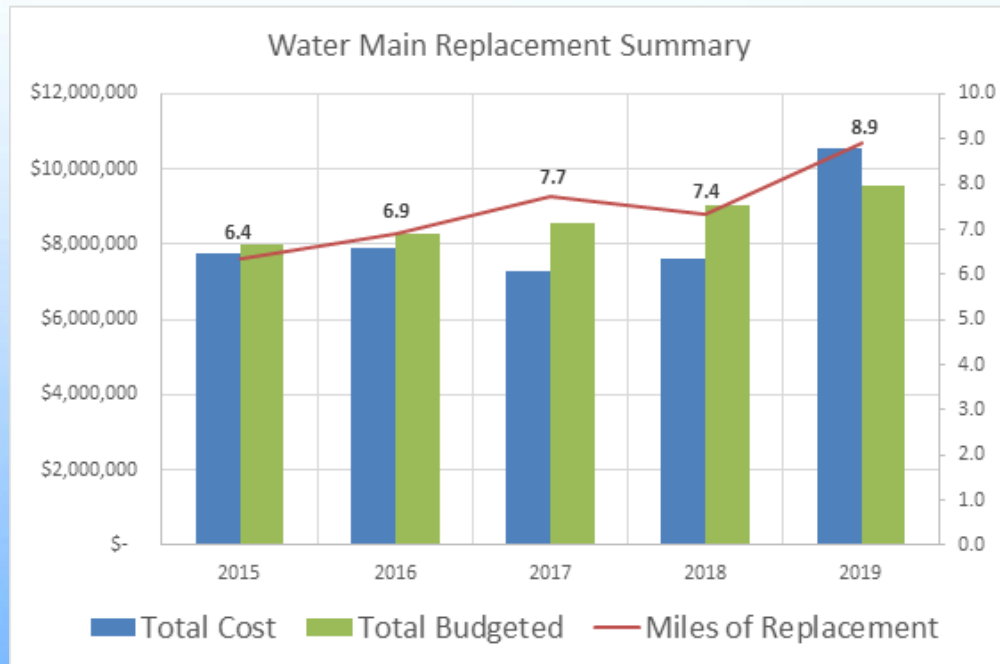
Improving Distribution Infrastructure

Reducing the potential of main breaks and service interruption



- 2019 Water Main Budget of \$10.6M (includes \$1M from 2018)
- Construction includes 8.9 miles of main replaced or rehabilitated. (1,200 miles in system)
- ½ of projects coordinated with Public Works improvement projects, limiting construction impact and cost

Capital Investment & Distribution Infrastructure



**2019 Replacement Rate:
145 Years***

*Replacement rate shown for 2019 budget dollars, and does not include additional main replaced with 2018 money carried forward

Sustaining Distribution Infrastructure

Reducing the potential of main breaks and service interruption

- Corrosion study is underway which will provide recommendations to extend the life of existing water mains
- Updating our water main replacement prioritization model in 2019



Improving Distribution

Lead Water Service Replacement

- Lead service replacements
 - 490 service replacements planned in 2019
 - 12,700 full or partial services remain in the system
- Utility owns that portion in public ROW
- New regulations expected this summer



Long Term Reliability of Water Treatment

Building tomorrow's infrastructure



\$130M Design-Build Water Treatment Improvement Project which includes process improvements in softening, recarbonation, and ozone disinfection.
Funding requested through State Revolving Loan Fund.

Improving Supply Infrastructure

Sustaining Existing Infrastructure

Major improvements to extend the life of
our supply system infrastructure:

- Concrete conduit repair
 - Steel conduit cathodic protection design
- Developing a plan for the Centerville source water