



# 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.

# Improving Customer Outreach for Construction Projects

## St. Peter St. Water Main Replacement



### Project Details

#### Location

St. Peter Street from 7th Place to 11th Street West

#### Timeline

April 2019 to July 2019

### Project Documents

[Notification Letter](#)

### Contact

Project engineer: [Rich Hibbard](#) 651-266-6268

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



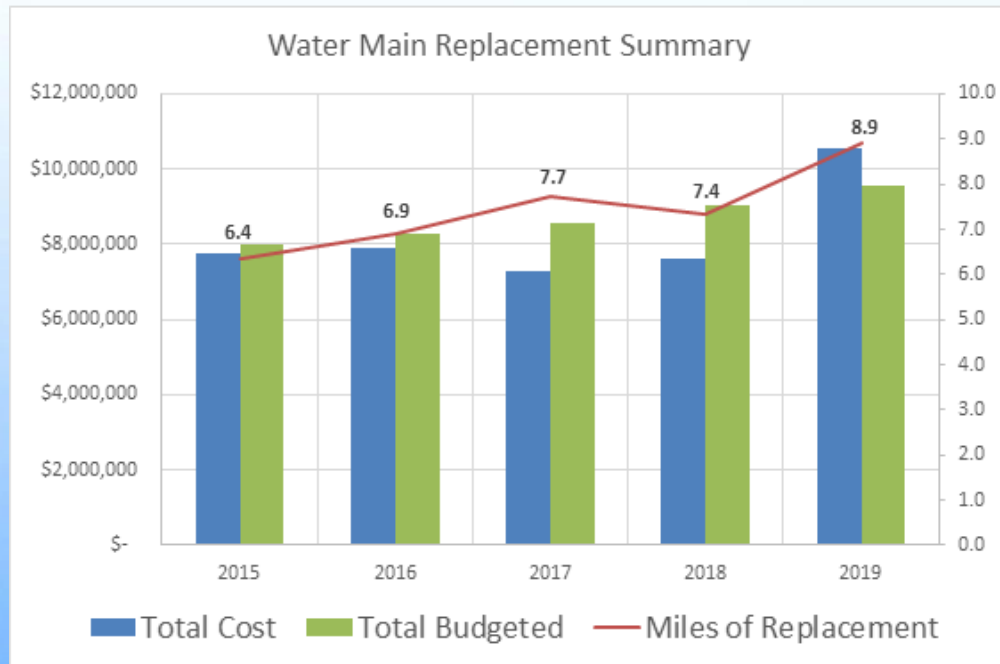
# Improving Distribution Infrastructure

*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