

Public Works Committee Update

Damon Dequenne, Deputy Utilities Director





CITY/COUNTY UTILITY COMMISSION OF THE CITY OF WINSTON-SALEM AND FORSYTH COUNTY

COMMISSION MEMBERS

Randall S. Tuttle, Chairman L. Wesley Curtis, Jr. Harold E. Day Tom Griffin Yvonne H. Hines Duane Long Paul S. McGill David Neill Chris Parker James Ruffin Donald Stewart

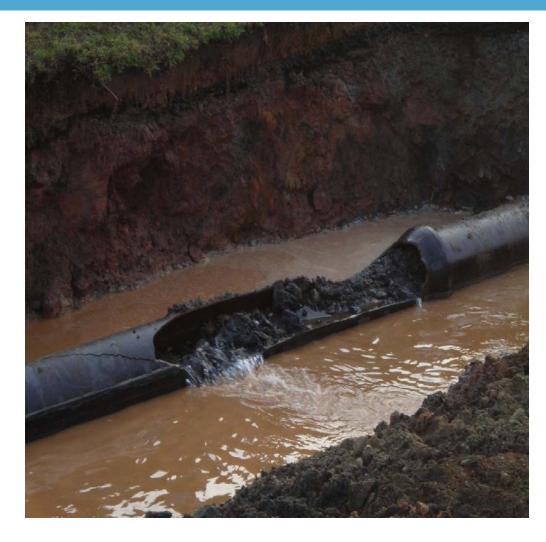
STAFF

Gregory M. Turner, P.E. Assistant City Manager

Courtney Driver, P.E. City/County Utilities Director



Water Main Breaks



Causes

Environmental

- Freezing/Rapid Temperature changes
- Manufacturer defects
- Installation Issues
- Operational Issues
- Damage during excavation



Water Main Breaks

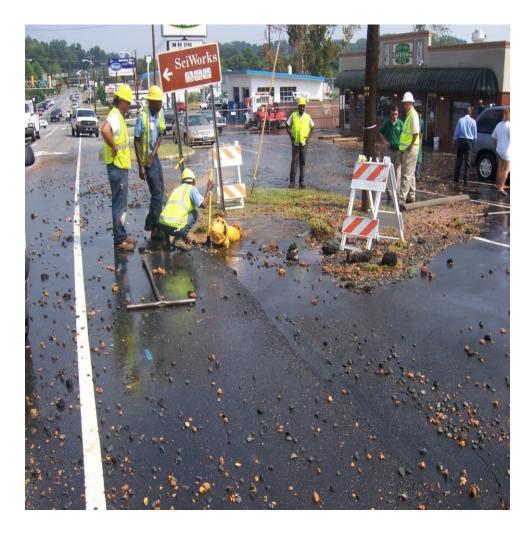


Response

- Evaluate effects of the break
 - Weather conditions
 - Roadway conditions
 - General public safety
- Isolation
 - Medical facilities
 - Hair salons
 - Restaurants
- Best repair approach
 - Immediate or delay
 - Traffic control



Water Main Breaks

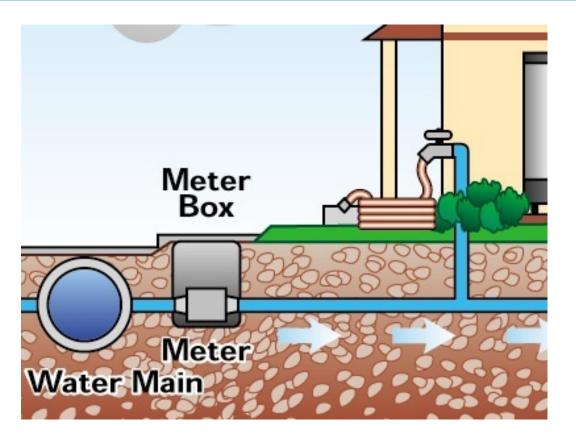


Response

- Notifications
 - Citylink immediately
 - Minimum 24 hours for planned work (48 hours preferred)
 - Personal visits to businesses and medical facilities
 - Notices hand delivered to residences
 - City and County Fire Departments
- Press releases
 - Detours
 - Large scale/lengthy outages
 - Potential water quality concerns



Water Service Leaks



Causes

- Environmental
- Installation Issues/Aging Materials
 - Driveways
 - Depth
- Plumbing concerns
 - Faucets
 - Toilets
- City/Owner Responsibilities



Water Service Leaks



General

- Approximately 128,000 meters
 - Residential 124,000
 - Commercial/Industrial 4,000
- Read 110,000 manually
 - Residential Bi-monthly
 - Comm./Ind. Monthly
- Read 18,000 electronically
 - Drive by



Water Service Leaks

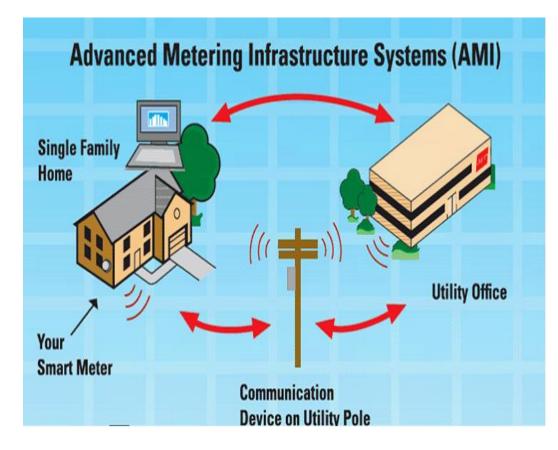


Response

- Investigations
 - Inspect/report/advise
- Notifications
 - High Bill alerts/Reread meters
- Education
 - Self perform leak checks
- Policies
 - Provide relief



Advanced Metering Infrastructure



Program

- Meter reading via fixed network
 - Improved accuracy
 - Real time data
- Assessment Phase substantially complete
- Procurement to begin fall of 2018
- Full implementation 2-3 years



Advanced Metering Infrastructure

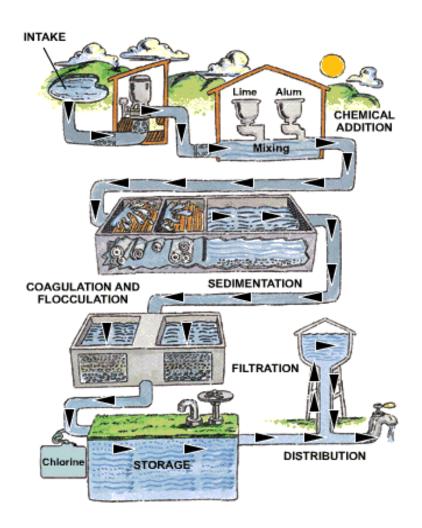


Customer Service

- Desired customer service offerings
 - Monthly billing in gallons
 - Leak detection and alert
 - Web account access
 - High consumption notice
 - Custom Billing
 - Prepay
 - Pick date to pay
 - Balanced Budget Billing



Lead and Copper



History

- EPA establishes program in 1991
- Treatment Technique Rule
- Corrosion Control
 - Caustic Soda
 - pH control
 - Zinc Orthophosphate
 - "Coating"
 - Limits
 - Lead 15 parts per billion (ppb)
 - Copper 1,300 ppb



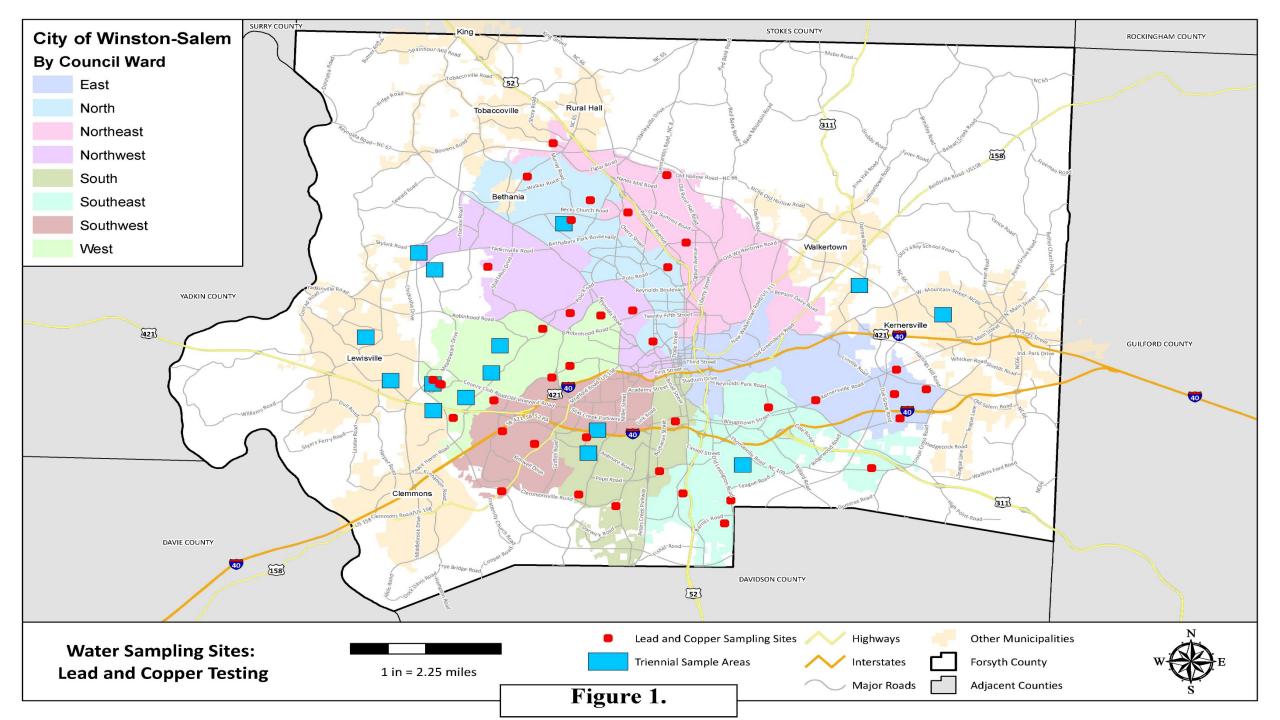
Lead and Copper



Sampling

- Reduced Triennial schedule (every 3 years)
 - 50 sites approved by the state
 - Selection was based on tiered criteria
 - Residential 1983 1985 Tier I
 - The only samples collected by consumers
 - Additional Sampling 2017
 - Council Wards
 - Winston-Salem/ Forsyth County Schools
 - No exceedances at any sample points





Thank you

