

# **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

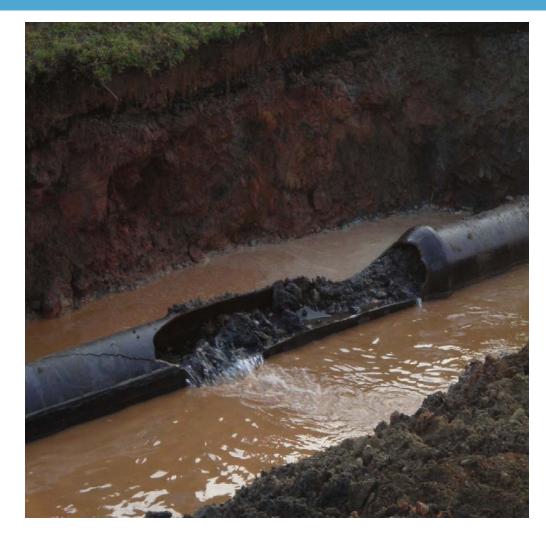
#### **STAFF**

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

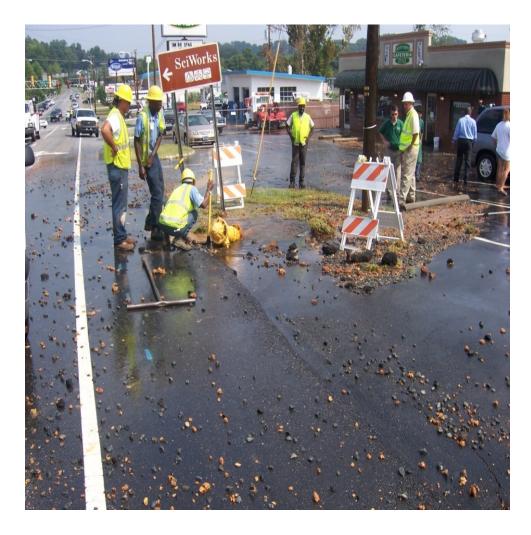


#### Response

- 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

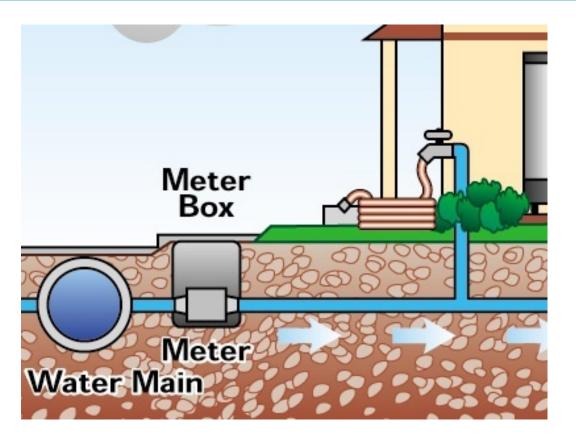


#### Response

- 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

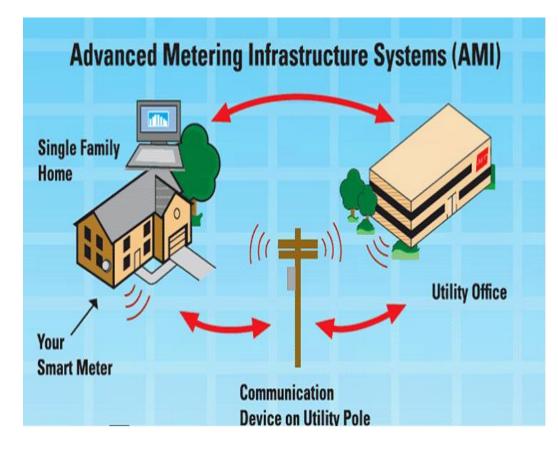


### Response

- 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**

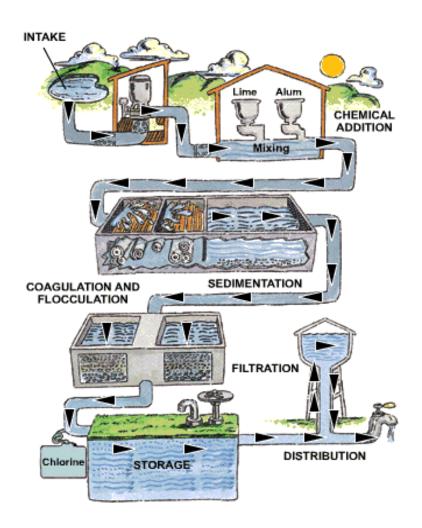


### **Customer Service**

- 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



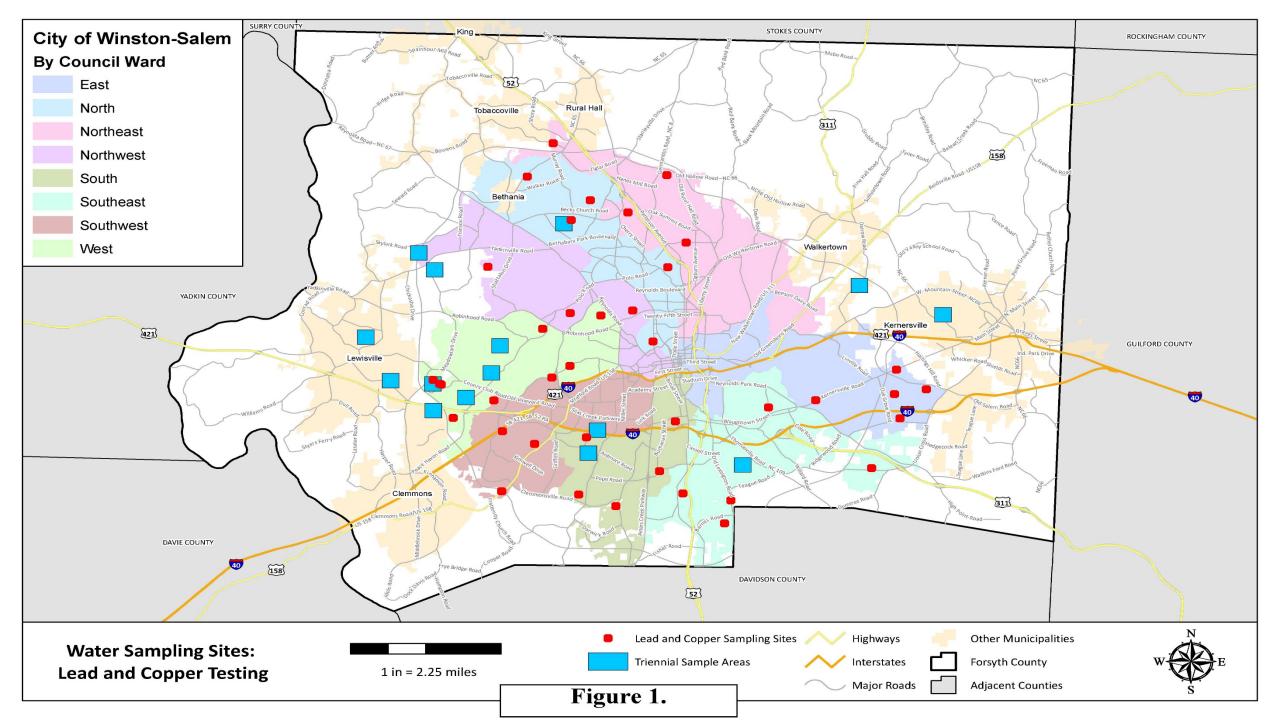
## Lead and Copper



### 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

