Kentucky Rural Water Association

Martin County Water District
Workgroup Meeting
November 18, 2020
KRWA Assistance Hours

• Quarterly hours dedicated to MCWD – 203.5
  • Compliance – 4.5
  • Technical (on-site) - 199

• Assistance made possible through funding by:
  • KY Division of Water – Small Water System Technical Assistance Program
  • Appalachian Regional Commission – Water & Wastewater Technical Assistance Program
  • USDA / Rural Development – Circuit Rider Program
Compliance Assistance

• Lead & Copper
  • Calculated compliance
    • Lead (Action Level – 15 ppb)
      • 90th percentile 2.0 ppb (range 0.0 – 5 ppb)
    • Copper (Action Level – 1.3 ppm)
      • 90th percentile 0.052 ppm (range 0.004 – 0.436 ppm)
  • Results mailed to customers
  • Submitted compliance certification

• Electronic Reporting
  • Established KY Online Gateway Account
  • Updated Monthly Operating Report
  • Successfully submitted September MOR

• Delivered 21 packs of cloth masks from KYWARN
Technical Assistance

• KRWA sent three staff to assist MCWD with leak detection and repair during the last two weeks of October.

• Prior to KRWA’s arrival four MCWD staff quit bringing the total to six staff recently departed. Despite the setback everyone pitched in to make the most of an unfortunate situation.

• In addition to leak detection KRWA staff completed routine work orders.
• Work Orders
  • Line locates
  • Leak investigations - repaired
    • Two small meter service leaks (2 gpm)
    • One small service line leak (2 gpm)
    • Discovered 35 gpm leak at an abandoned service
    • Observed evidence of two tank overflows. Needs further investigation.

• Pressure complaint - resolved
  • Leaking PRV at a meter service

• Water outage compliant - resolved
  • Failed 2” main line PRV resulted in no water to four customers
  • PRV was dissembled, problem identified and a rebuild kit ordered
  • Water service restored by adjusting individual PRVs on the customer side of the meter
• Leak Repairs
  • Three known leaks repaired in high hazard areas
  • KRWA helped with traffic control and safety
    • Blacklog Road
    • Rt 3
    • Rockcastle tank area (est. 35 gpm)

• Leak Location
  • Located 15 valves in the Buck Creek and Coldwater zones to facilitate leak detection
  • Exercised five valves, replaced one, realigned 2
  • Pinpointed two 10-15 gpm leaks
  • Located two 50 gpm leaks in the Inez zone
  • Discovered dead meter at Inez Grade School
• Pressure Regulation
  • Inspected main PRV and pump stations
  • Adjusted PRVs following leak repairs

• Summary
  • Completed 20 work orders
  • Repaired seven leaks recovering estimated 75+ gpm
  • Located four leaks estimated to recover 130 gpm
  • Exercised 5 valves
  • Discovered one large meter not working
  • Restored service to four customers
  • Identified tank overflow issue
Wrap-Up

• Recommendations
  • Provide control valve operation & repair and leak detection training to new employees
  • Train new staff on GIS leak tracking application
  • Develop other GIS workflows to spatially track maintenance
  • Engage engineering to evaluate the proper application of existing PRVs
  • Balance short-term operational needs with capital projects
Final Note

A customer approached Tim while a leak was being repaired and commented that he could really tell a difference since Alliance was hired. Beforehand we he rarely saw anyone working nowadays every time he sees a district truck someone is working on the system.
Questions?