

# Creek County RWD #2

Governor's Water Conference  
Reed Center, Midwest city

Cindy Hubbell and Matt Foreman

# Creek #2 Board

- Very involved Board with various backgrounds in engineering, personnel, banking, electric, insurance, contracting, system piping.....etc.
- Researching, budgeting, leak detection and flow meter site surveying.
- Purchasing water loss control instruments and meters is not just a wish.....it's a must!
- Our Board is **AWESOME!**

# The Beginning

- At the monthly board meetings the board was concerned about the amount of water being lost.
- At the ORWA conference we were informed of the water loss audit performed by the ODEQ.
- From this audit, 16-20% loss due to leaks and the unknown.
- The ORWA leak detection team came in and identified 25 leaks and trained our employees to find leaks.

In 2018, our October loss totaled over 9 million gallons of water. After implementing our water loss/ leak detection program, our October 2019 loss totaled 1.1 million gallons of water.

# Partnerships

- ORWA and DEQ
  - Water Audit – DEQ
  - Leak Detection – ORWA
- These partners educated staff on the importance and need to incorporate a water audit and leak detection program.
- Our system now accounts for every drop of water that is:
  - Sold,
  - Used for flushing, or
  - Lost in leaks.
- We focus our efforts on the areas identified by the program.



# The Equipment

- Using modern technology
- Old forms of leak detection
- Data loggers
- High tech listening device
- Flow meters
- T mic for valve sounding
- Residential smart meters
- New telemetry system



# Monthly Water Loss Projections

- A monthly water loss trial run gives the ability to see suspected leaks and line failure.
- Flow and pressure monitors will speed up the process of locating line failures. The use of telemetry, with hourly updates, can be monitored by field personnel, cell phone, tablet or computer.



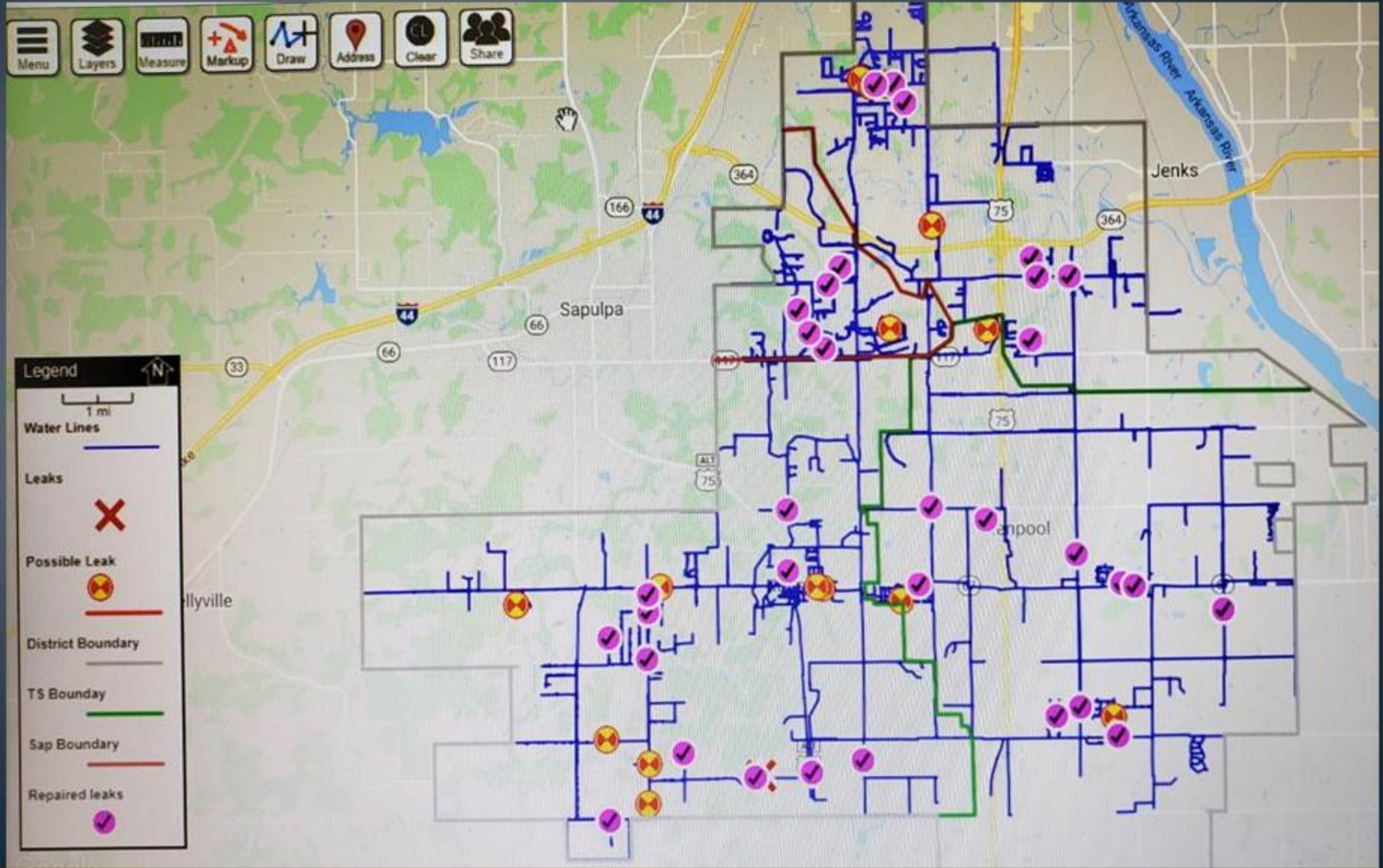
# Metering System

- Smart meters with drive by radio reading were installed years ago.
- After the upgrades, the old AMR/AMIs were inefficient.
- A 12 year plan is implemented to replace the current system with a new hybrid system allowing the office to receive reads every hour if necessary.
  - This update allows us to capture private leaks and save our customers and ourselves water and time.

# Accountability

- Creek 2 has a leak detection team.
- It is the focus of ALL Creek 2 employees to control water loss anyway they can.
- This is recognized at board meetings with a leak report that shows:
  - The time
  - Gallons lost
  - Date found/repared
  - Who found it
  - Who repaired it
  - The cost of the water lost

# GIS Mapping



# GIS Mapping with Diamond Maps

- They offer many tools including:
  - Line mapping
  - Valves
  - Supply zones
  - Elevations
  - Distance
  - And many more
- This allows for:
  - Mapping repaired, live and possible leaks
  - Real time web alert map for service interruptions
  - Documentation of what and how the repairs took place
  - Allows Board to see the visual need for replacement
  - The time
  - Gallons lost
  - Date found/repaired
  - Who found it
  - Who repaired it
  - The cost of the water lost

Quick access for the field crew and it's easy for new hires to use.  
We have a "Public Map" for use by citizens and contractors.

# Our Employees

- The District has created an organization which nurtures integrity and pride, while allowing growth and acceptance of new ideas from everyone. This has created an environment that brings out the best in everyone.

The Young Guns



The Man with  
the Plan



The Office Ladies

# The TEAM





# Questions?

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