

East Larimer County Water District
Leak Detection
50% Completion Report
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Grant Recipient: East Larimer County Water District
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As described in the Application for Water Efficiency Grant, East Larimer County (ELCO) Water District has hired a company to provide leak detection services in mobile home parks in the District and also leak detection on ELCO's main water lines in 20% of the District. This will assist the District in meeting its targeted water savings goal of 5% as stated in ELCO's Water Conservation Plan.

This 50% completion report document is in partial fulfillment of Colorado Water Conservation Board's Water Efficiency Grant Program requirements. A summary of the project status, obstacles and project modifications are described below.

Project Status

Due to the warmer weather this past week, the District surveyed the mobile home parks water lines first. This would complete Task 4 of the scope of work provided in the Application for Water Efficiency Grant. Task 1 and 2 are being completed the following week which involves leak detection on ELCO's main lines.

Obstacles

There were a few unexpected obstacles the hired leak detection company encountered while surveying the mobile home parks water lines. The mobile home parks surveyed have water lines that are 25 years old or more. Typically, these parks have had ownership changes since its conception, which the current owners were not provided with adequate

mapping showing pipe diameter or type of pipe. Leak detection can not be performed as efficiently when the type of water line is not disclosed. Without this information, it makes it difficult pinpointing the exact location of the leak, but leak detection was able to provide approximation for the size of leak and the area of the leak.

Another obstacle leak detection encountered was getting access to a few shutoff valves underneath the mobile home. Some of the homes in the park are not owned by the park, so that required cooperation from the owner of the home. Some owner's were not willing to remove the skirting, so leak detection was not able to be done at that trailer site.

Lastly, some shutoff valves were not within arms length underneath the mobile home. The hired leak detection company is prohibited from crawling under a trailer due to the Confined Space Rule, which did prohibit accurate results at certain valves and trailer sites. A few parks did have a maintenance crew available to provide this service if needed, which did eliminate this problem for some sites.

Project Modifications

The only modification made to the project was changing the order of areas in which leak detection was going to start surveying. Due to the warmer weather the Front Range was experiencing, ELCO decided to provide leak detection to the mobile home parks before surveying ELCO's main lines. This accommodated the parks better as their main concern was freezing temperatures reaching the exposed lines under the homes.

Summary

Tasks 3 and 4 have been successfully completed with Tasks 1 and 2 being completed this week. Tasks 6 and 7 will be completed and provided to the Colorado Water Conservation Board by the end of the month.