

## **Proposal Monitoring Plan**

### **City of Sacramento Department of Utilities District Metered Areas (DMAs) for Water Loss Control**

Water, energy, and greenhouse gas (GHG) reductions resulting from the proposed project will be monitored by the City of Sacramento Department of Utilities (the Department) in several ways including annual water audits, meter data, and leak data.

The Department conducts annual water audits of its water system for reporting to the California Urban Water Conservation Council. The Department performs the water audit using methodology from the American Water Works Association (AWWA) M36 Water Audits and Loss Control Programs document. Water savings from this project will be captured in the annual audit and provided as water losses in gallons/connection/day.

The project will also focus on areas with Advanced Metering Infrastructure (AMI) meters installed allowing the Department to provide data showing the reductions in water losses from service-side leaks. AMI meters provide consumption data in short-increment time frames allowing the Department to easily identify and report consumption reductions once the leaks are fixed. This will allow the Department to identify the amount of water, energy, and GHG savings through the service-side leak repair program.

Leak detection and construction crews repairing or replacing leaking City-owned assets such as pipes, fittings, and valves can estimate leakage rates of these items by using the methodology in the AWWA M36 manual. These estimates will be used to quantify an estimate of water, energy, and GHG reductions through these repairs.

Further details of the monitoring and subsequent reporting will be finalized through the agreement development process per the grant solicitation package.