



Security Water and Sanitation Districts / Enterprises

231 SECURITY BLVD. • COLORADO SPRINGS, COLORADO 80911

TELEPHONE 719-392-3475 • FAX 719-390-7252

www.securitywsd.com

50% Completion Report For Colorado Water Conservation Board Water Efficiency Grant for Security Water District PO OE PDA 14000000074

March 17, 2014

CWCB's guidelines for Water Efficiency Grants require submission of a 50% completion report to CWCB. In compliance with that requirement, WaterDM and its subcontractor, Water Matters! herewith submit that report.

Peter Mayer of WaterDM and Linda Firth of Water Matters! met with Security Water District on February 7, 2014 to learn more about their non-revenue water concerns; to establish project goals and timelines; and to begin the data gathering process. We gave Security a list of data needed to begin our analysis, using the AWWA M36 method.

Security Water District was established in 1954 as a quasi-municipal corporation and political subdivision of the State of Colorado for the purpose of providing water improvements and services for its residents, which currently number about 18,500. The District is located in an area of unincorporated El Paso County bordered on the north by Drennan Blvd., on the west by I-25, on the east by Grinnel Road and on the south by Fontaine Blvd. The District comprises approximately five square miles.

Security obtains its water supply from the Frying Pan-Arkansas Project by way of the Fountain Valley Authority and from 20 groundwater wells located in the Widefield and Windmill Gulch aquifers. About 2/3 of the current supply comes from groundwater, the remaining 1/3 from Project surface water. Its groundwater is alluvial, therefore subject to various augmentation agreements. This mix is expected to change in the future, ultimately increasing dependence on surface water.

Although the District enjoys an adequate supply of water, sufficient to meet the needs of its current growth well into the future, it experiences an average of 10 to 12 percent "non-revenue" water loss, and is anxious to determine the cause of this loss.

We met again with Security Water District on February 12. Their data was complete, and few gaps were identified. Using the AWWA M36 methodology, we were able to identify three areas for further investigation and analysis. These were imported water (inability to verify Southeastern Colorado Water Conservancy District's measurement accuracy without further investigation); volume from own sources; and systematic data handling errors.

Next steps include a phone discussion of the three areas of concern with Reinhard Sturm of Water System Optimization (WSO is another subcontractor to Water DM) to clarify issues; revision where appropriate of the Reporting Worksheet responses and completion of the Desktop Audit based on input from WSO and from Security Water District; preparation of the 75% completion report to CWCB; Technical Review meetings with Reinhard Sturm and Security Water District; and preparation of the final report for the District and CWCB.

The project has been delayed, not because there were any obstacles in regard to gathering data, but rather because we wished to coordinate the visit from Rheinhard Sturm with a visit to the Town of Monument at the same time. Monument's project was delayed because grant approval was delayed. Both projects are now at the 50% completion stage, Rheinhard's visit has been scheduled for September 4 and 5. Following the workshop with Rheinhard, the 75% report will be submitted to CWCB. A revised schedule is included with this report.

Linda J. Firth, Principal
Water Matters!

Appendix B, Revised Timeline

Grant application submitted to CWCB for approval	1/6/2014
CWCB approves grant, issues PO	2/3/2014
Preliminary Meeting	2/14/2014
Data gathering	2/28/2014
50% completion report to CWCB	3/17/2014
Desktop Audit	3/24/2014
75% Completion Report to CWCB	9/15/2014
Technical Review Meetings with WSO	9/4/2014
Final Report Preparation	10/15/2014