

MEMORANDUM

To: Ben Wade, Colorado Water Conservation Board

From: Lyle Whitney, Water Conservation Supervisor, Aurora Water

Date: April 8th, 2011

Subject: 75% Progress report for Aurora Water's Water Use Inefficiency Mapping and Identification Integrated with the System Incentive Program (SIP) Project

The City of Aurora Water Department with the assistance of AMEC Earth and Environmental is developing a Citywide Water Use Inefficiency and Identification Map integrated with a System Incentive Program per the March 2011 grant application to the Water Conservation Board (CWCB). The final goal of project is to create a map of the entire city, grading each tax parcel based on their water use in categories ranging from very high use to very low use. The data generated from the mapping portion of this project will be incorporated into a spatial database linking land cover information to tax parcel, and water bill information. Aurora Water and AMEC Earth and Environmental are currently 75% complete with the specified tasks and activities to be funded by the Grant.

Database Development and Geoprocessing

The timeline presented in the 50% completion report is a few months behind due to manual corrections of the spatial database that links tax parcel information to land cover analysis and water bill consumption history. The bulk of land cover corrections have been made in new development areas where the 2010 imagery wasn't representative of customer's 2012 use. Tax parcels have also been classified by parcel size (small, standard, large, or estate) based on City of Aurora Planning definitions. This change allows Aurora Water Conservation to explain usage by comparing a customer's water use to similar neighbors and to an efficient amount.

Project Implementation

In addition, to finishing the Database Development, Aurora Water Conservation has been working on targeting and contacting the top inefficient users. This will allow Aurora Water Conservation to change our rebate program from a reactive program to a targeted rebate program based on replacing items with the highest return on investment. The return on investment will be the basis of the System Incentive Program (SIP). We are working with the most inefficient over users to help make necessary changes through auditing each customer's system and helping them complete the conservation calculator. The table below shows a return on investment list for a customer who has completed the Calculator and selected changes they wanted to make. SIP customers must have a return on investment of less than 4 years to take advantage additional rebate funds.

Initial Analysis

Aurora Water Conservation has contacted over 150 customers so far. A month after contacting the first customer, over 100 profiles have been created on the Calculator. A few SIP customers have completely finished the Calculator on their own, but most have requested indoor or outdoor audits to assist them. Staff are entering the customers audit results into the calculator and sending the customer a tailored ROI list. The initial indoor audits have resulted in customers receiving aerators and showerheads. Outdoor audits are being scheduled, but will not start until the end of May. The general response to the program is positive.

Money used to date

Task	AMEC (\$)	AMEC Hours	Grant (\$)	Aurora (\$)	Aurora Water-Hours	Aurora Water In-Kind	Total Cost
Project Setup	\$7,096	63	\$4,991	\$2,104	31.00	\$1,147	\$8,243
Land Cover Analysis	\$69,105	956	\$57,813	\$11,292	148.5	\$5,495	\$74,600
Database Dev/Geoproc.	\$44,026	513	\$33,961	\$10,065	83	\$3,071	\$47,097
Project Implementation	\$0	0	\$0	\$0	165	\$6,105	\$6,105
Land Cover Maintenance	\$0	0	\$0	\$0	0	\$0	\$0
Project Administration	\$14,849	221	\$8,875	\$14,849	33	\$1,221	\$24,945
Reporting and Analysis	\$0	0	\$0	\$0	10	\$0	\$0
TOTAL	\$135,076	1,753	\$105,641	\$38,309	471	\$17,039	\$160,989
Cash							\$40,176
In-Kind							\$16,484
CWCB Grant Monies Used							\$95,019
TOTAL							\$151,679

Money remaining *(\$red) denotes amount over budget.

[illegible]

