

MEMORANDUM

To:	Ms. Deborah Burrell, CWCB
cc:	Mr. Bill Efting, City of Dacono
From:	Kim Frick
Date:	April 13, 2011
Subject:	75% Progress Report for the City of Dacono Water Conservation Plan

Clear Water Solutions (CWS) has completed 75% of the City of Dacono's Water Conservation Plan in accordance with the Guidance Document produced by the Colorado Water Conservation Board (CWCB). The Guidance Document outlines nine steps in the water conservation planning process. To date, CWS and the City have completed six of the nine steps per the scope of work.

CWS File #10-130

Table 1 shows the water conservation goals as they evolved throughout the planning process. Original goals were set after characterizing the City's water distribution system, customer categories and past and future water use in each of those categories. Water conservation measures were then selected by the City staff through two screening processes including a cost/benefit analysis. Estimated savings from the final measures were then compared to the original water saving goals and those goals were adjusted to better meet expected water savings. These adjusted values are preliminary and will undergo further review with City Staff.

		Initial Goals	(Chapter 5)			Adjusted (joals	
	Total			Total Water				
	Projected			Savings from				
	Water Use	Reduction	n Goals for	Selected	Resulting	Adjusted Reduc	tion Goals	
Water Use Categories:	(2012 to 2021)	Planning Horizon		Programs	Reduction	for Planning Horizon		
	(AF)	(%)	(AF)	(AF)	(%)	(%)	(AF)	
Residential	4,535	10.0%	454	332	7.3%	7%	332	
Commercial	850	5.0%	43	80	9.4%	9%	80	
City	227	8.0%	18	5	2.2%	2%	5	
Unaccounted-for Losses	567	2.0%	112	187	3%	3%*	187	
Total Water Production:	6,179							
Total Demand Reduction:			626	604			604	
Total Percent Reduction:			10%		10%	10%		

 Table 1 – Water Conservation Goals

* The goal is to reduce unaccounted losses from 10% to 7% or an overall 3% reduction.

The measures and programs targeted savings from Residential and Commercial users as well as City Usage. There were 50 water conservation measures and programs on the universal list that the City initially considered. The first screening included the following criteria and narrowed the list down to 30 measures and programs.

- 1. Political ramifications
- 2. Financial implications
- 3. Interest level in measures such as education etc.

The second screening was accomplished by evaluating each measure/program based on a cost benefit screening criteria and Dacono's overall goal of this water conservation plan. The final list of water conservation measures and programs is shown in **Table 2**. Some of these measures from the universal list were combined into one measure. We also removed the Drought Mitigation Plan measure from this list as it will be applied for under a grant application separate from the Water Conservation Planning Process.

Rank	Conservation Measures and Programs
1	Evaluation of Policies to Encourage Water Savings
2	Water Waste Ordinance
3	Billing Software Upgrades
4	Water Rate Structure Changes
5	Water Restrictions
6	Low Flow Faucet Rebate
7	Water Conservation Website Upgrades/ Public Education
8	Billing Statements that Encourage Water Savings
9	Residential Rebate for Low-Flow Toilets
10	Water Conservation Upgrades at City Facilities - Indoor
11	Leak Detection & Repair Program
12	Low Flow Showerhead Rebate
13	Water Conservation Upgrades at City Facilities - Outdoor
14	Meter Testing & Replacement
15	Property Manager/HOA Training & Education
16	Turf & Landscape Standards
17	Irrigation System Standards for New Development
18	Soil Amendment Ordinance for New Landscapes
19	Xeriscape Demonstration Garden
20	Irrigation System Efficiency Device Rebates
21	Requiring Wind/Rain Sensors for Commercial Development
22	Turf Restrictions
23	Rebate for High Efficiency Clothes Washer
24	Commercial Water Audits
25	City Irrigation Audits
26	Rebate for High Efficiency Dish Washer

Table 2 – Final List of Measures/Programs

* Shaded cells represent existing measures.

We are also providing an updated schedule for the Water Conservation Plan for the City of Dacono, see below.

Project Schedule City of Dacono Water Conservation Plan	4.12.2011
Task	Date
Grant application submitted to CWCB	3/3/2010
CWCB approves grant and PO issued	11/12/2010
Meeting with Dacono staff for kick off meeting and overview of system	11/30/2010
Meeting with Dacono staff for goal setting and review	2/2/2011
Submit 50% progress report to CWCB	2/28/2011
Submit 75% progress report to CWCB	4/13/2011
Submit draft plan to staff for review and comment	5/6/2011
Staff provides comment from review	5/13/2011
Submit final draft to City Council for review	5/18/2011
Collect City Council comments and discussion on final draft at meeting	5/23/2011
Notify public of draft plan in paper or water bill	5/25/2011
Public review period (60 days)	5/25 - 7/25/2011
Dacono provides public input comments to CWS	7/26/2011
CWS incorporates public comments	8/1/2011
CWS submits final plan to CWCB	8/2/2011
Dacono City Council formally adopts final draft	8/8/2011
CWCB approves plan	up to 90 days