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## MEMORANDUM

CWS File #14-190

To: Ben Wade, CWCB

From: Nathan Alburn *NSA*, Michelle Hatcher *MH*

cc: Leann Koons – North Weld County Water District

Date: December 22, 2016

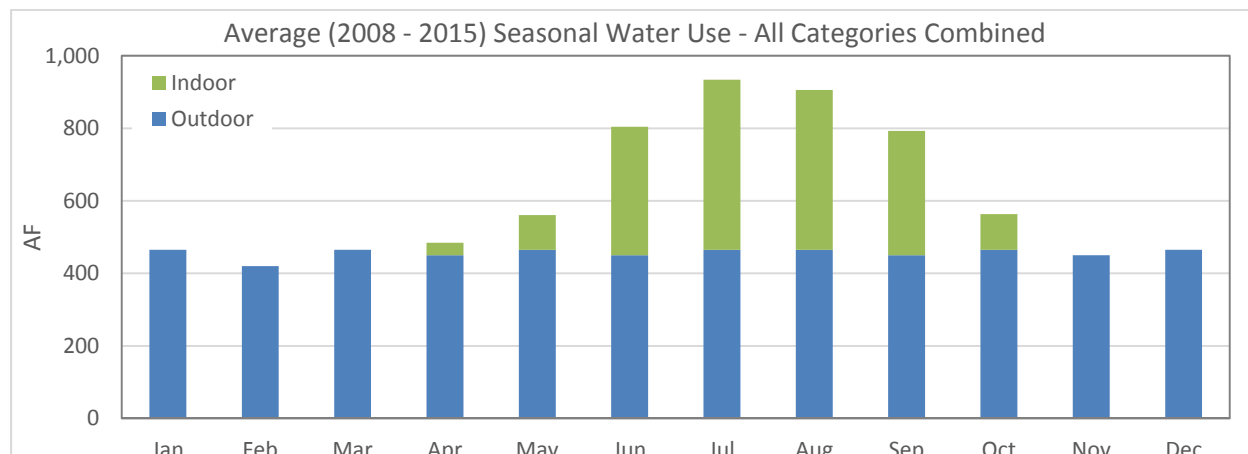
Subject: 75% Progress Report for North Weld County Water District Municipal Water Efficiency Plan

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Clear Water Solutions (CWS) is continuing to assist North Weld County Water District (NWCWD or District) with updating their Municipal Water Efficiency Plan (Plan) in accordance with State regulations following the Guidance Document (dated July 2012) produced by the Colorado Water Conservation Board (CWCB). The Guidance Document outlines six steps in the water conservation planning process. To date, CWS and the District have made strong progress towards the completion of Steps One through Four which include multiple discussions with District Staff (Staff) on planned Water Efficiency Activities (Activities).

NWCWD delivered 7,949 acre-feet of treated water in 2015 to an estimated service area population of 42,821. NWCWD relies on two main sources of water, units of Colorado-Big Thompson (C-BT) Project water and native shares from various ditches that divert from the Cache la Poudre River. The District receives its treated water from the Soldier Canyon Filter Plant (SCFP), which is jointly owned by the Tri-Districts: NWCWD, Fort Collins-Loveland Water District, and East Larimer County Water District. Water is delivered to the plant from Horsetooth Reservoir which is part of the C-BT Project. The District can also bring water to SCFP through the jointly owned Pleasant Valley Pipeline. The District then distributes its portion of the treated water to its customers through over 400 miles of pipeline.

Among the various analyses performed during the Plan update, CWS has separated out and estimated the District's indoor versus their outdoor water use. The following chart is a bar graph that contains the District's average monthly indoor and outdoor water use. NWCWD is somewhat unique in that outdoor or seasonal use only represents approximately 28% of total treated water used.



Staff and CWS have selected numerous Activities to continue and some new ones to potentially add. The list is presented below; these may be subject to change, however, as the Activities are further reviewed by Staff and they analyze the associated water savings and anticipated costs. CWS and Staff are continuing to work to determine the water savings evident from the implementation of the existing Activities, some of which were implemented as early as 2009.

Water Efficiency Activities for Evaluation	Existing/ Potential Activity
<b>Foundational Activities</b>	
<i>Meter Testing and Replacement Program (Meter Upgrades)</i>	E
<i>System Wide Water Audits</i>	E
<i>Control of Apparent Losses (with Metering and SCADA )</i>	E
<i>Automatic Water Meter Reading Installation and Operations</i>	E
<i>Water Efficient Rate Structure/Water Budgets with Regular Updates</i>	E
<i>Leak Detection and Repair Program - No Third Party</i>	E
<i>Leak Detection and Repair Program</i>	P
<i>Recycling Water Treatment Plant Filter Backwash</i>	E
<i>Master Plans/Water Supply Plans</i>	E
<b>Targeted Technical Assistance and Incentives</b>	
<i>Slow the Flow Residential Irrigation Audits</i>	P
<i>Indoor Residential Water Audits</i>	P
<i>Residential and Commercial Ultra High-Efficiency Toilet Upgrade Service or High-Efficiency Toilet Rebate Program</i>	P
<i>High Efficiency Clothes Washer Rebate</i>	P
<i>Give-Aways: Residential Water Audit Kits</i>	E
<i>Give-Aways: Residential Water Audit Kits - New</i>	P
<i>Slow the Flow Residential Irrigation Audits</i>	P
<b>Ordinances and Regulations</b>	
<i>Smart Watering Guidelines</i>	E

Education Activities	
<i>Bill Stuffers</i>	E
<i>Newsletters</i>	E
<i>Newspaper Articles</i>	E
<i>Mass Mailings</i>	E
<i>Website</i>	E
<i>Water Fairs and classroom activities</i>	E
<i>Interactive Websites</i>	E
<i>Social Networking (Facebook &amp; Twitter)</i>	E
<i>Xeriscape Demonstration Garden</i>	P
<i>Landscape Design (Xeriscape) and Maintenance Classes</i>	P/E
<i>Garden in a Box</i>	P

The next steps will involve the implementation plan of the selected Activities, the monitoring plan, and submitting a draft Plan to the District Staff.

To date our budget estimates for each step have been fairly accurate. We have fallen behind from our last adjusted schedule sent out with the 50% Progress Report. We are waiting for new water projection data from the Soldier Canyon Filter Plant which has pushed our schedule out even further. We hope to stick with the new schedule included below.

Task	Date
Grant application submitted to CWCB	
Updates made as per CWCB	4/11/2016
CWCB approves grant and PO issued	Week of 5/9/2016
Kick-off meeting with Staff	5/11/2016
2nd Meeting - Activities	9/2/2016
Submit 50% progress report to CWCB	9/5/2016
3rd Meeting – Cost/Benefit (Review cost/benefit analysis, go over CDSS worksheet details, fill in gaps (data, information, etc.))	12/21/2016
<b>Submit 75% progress report to CWCB</b>	<b>12/22/2016</b>
<i>Submit draft Plan to Staff for review and comment</i>	<i>3/17/2017</i>
<i>Staff provides comment from review</i>	<i>4/10/2017</i>
<i>Submit draft Plan to District Board for review</i>	<i>4/24/2017</i>
<i>Present draft Plan at District Board meeting and collect comments</i>	<i>5/22/2017</i>
<i>Notify public of draft Plan in paper and website</i>	<i>5/26/2017</i>
<i>Public review period (60 days)</i>	<i>7/28/2017</i>
<i>District provides public input comments to CWS</i>	<i>7/31/2017</i>
<i>CWS incorporates public comments</i>	<i>8/7/2017</i>
<i>District Board formally adopts final report</i>	<i>8/21/2017</i>
<i>CWS submits final Plan to CWCB</i>	<i>8/24/2017</i>
<i>CWCB approves final Plan</i>	<i>up to 90 days</i>