

MEMORANDUM

CWS File #14-190

To:	Ben Wade, CWCB			
From:	Nathan Alburn <i>Nちみ</i> , Michelle Hatcher MJH			
cc:	Leann Koons – NWCWD			
Date:	September 12, 2016			
Subject:	50% Progress Report for North Weld County Water District Municipal Water Efficiency Plan Update			

Clear Water Solutions (CWS) is currently assisting North Weld County Water District (District *or* NWCWD) 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 1-3 which includes initial discussions with District Staff on water efficiency activities.

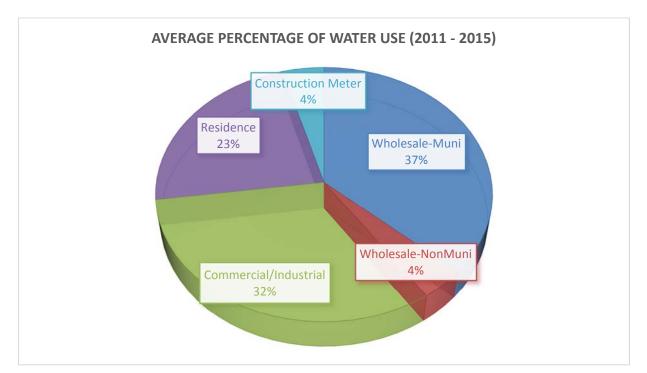
NWCWD delivered 8,746 acre-feet of treated water in 2015 to an estimated service area population of 42,821. The District receives its treated water from the Soldier Canyon Filter Plant, which is jointly owned by the Tri-Districts: NWCWD, Fort Collins-Loveland Water District, and East Larimer County Water District. Water is delivered to the plant from Horsetooth Reservoir which is part of the Colorado-Big Thompson Project. The District can also bring water to the plant through the jointly owned Pleasant Valley Pipeline. The District then distributes its portion of the treated water to its customers through over 650 miles of pipeline.

NWCWD's service area is approximately 325 square miles and is contained for the most part within the western portion of Weld County. The District serves a very unique make-up of customers. A large portion of the population of the District resides within ten smaller municipalities and communities. Most of these communities are served by master meters and are responsible for their own water supply planning and acquisition. The other large segment of water use comes from commercial and industrial (C&I) users. The largest portion of those C&I users consist of more than 20 dairies and feedlots that are located within the District borders. The remaining customers are the rural residents spread throughout the District. Essentially, the District breaks its customers into five main categories:

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- Wholesale-Muni: Master meters
- Wholesale-NonMuni: Those customers served by a master meter that do not fall into the category of a municipality.
- Commercial/Industrial: Various C&I customers; dairies and feedlots are included within this category.
- Residence: Rural residents not served within the master-metered areas.
- Construction: Temporary water for construction purposes: This category varies a great deal from year to year.

The District also monitors its Fire Meters, but these meters only total around one acrefoot per year. As new residential areas are being developed, NWCWD is also adding non-potable systems; this category, however, makes up a very small percentage of the overall water delivered at this time. The following figure breaks out the potable water usage per customer category as a percentage of a five year average (2011 – 2015). As more data is processed and analyzed, these percentages may shift some, but this gives a general overall picture of the District's water usage.



Prior to and through their current Plan, the District has established the following water efficiency activities (please see the table below). This list may be updated and clarified as further discussions occur.

Historical and Current Water Efficiency Activities			
Foundational Activities			
Automatic Meter Reading (AMR) Installation and Operations			
Meter Testing and Replacement			
Meter Upgrades			
Frequency of Meter Reading/Billing. Meters are capable of recording multiple readings			
per day.			
Tracking Water Use by Customer Type			
Upgraded Billing System to Track Use by Sufficient Customer Types			
Tracking Water Use for Large Customers			
Volumetric Billing			
Water Rate Adjustments – currently in progress of analyzing water rates			
Inclining/Tiered Rates			
Recycling WTP filter backwash			
Tap Fees with Water Use Efficiency Incentives			
Incentives and Educational Activities			
Give-aways: Residential water conservation kits			
Bill Stuffers, Newsletters			
Water Fairs, Classroom Education Participation			
Web Pages, Interactive Websites, Social Networking (Facebook, Twitter)			

CWS and the District's Staff are currently working to determine the water savings evident from implementation of these activities. NWCWD has an overall goal of a 10% water savings. The District and CWS have done an initial screening and are also in the process of determining water efficiency activities for the Plan update. The next step includes performing a feasibility and cost/benefit analysis of the selected activities for further evaluation by the District's Staff.

To date our budget estimates for each step have been fairly accurate. Currently we are behind our last estimated schedule. We have created and hope to stay on the new schedule included below.

Tasks	Date
Grant application submitted to CWCB	
Updates made as per CWCB	4/11/2016
CWCB approves grant and PO issued	4/25/2016
Kick-off meeting with staff	5/23/2016
2 nd Meeting - Activities	9/2/2016
Submit 50% Progress Report to CWCB	9/12/2016

Future Tasks	Date
3 rd Meeting (Review cost/benefit analysis, go over CWCB worksheet details, fill in gaps (data, information, etc.)	TBD
Submit 75% Progress Report to CWCB	10/24/2016
Submit draft Plan to staff for review and comment	12/19/2016
Staff provides comments from review	1/11/2017
Submit draft Plan to Board for review	1/23/2017
Present draft Plan at Board meeting and collect comments	2/13/2017
Notify public of draft Plan in paper and website	2/17/2017
Public review period (60 days)	4/21/2017
NWCWD provides public input comments to CWS	4/24/2017
CWS incorporates public comments	5/1/2017
Board formally adopts final Plan	5/8/2017
CWS submits final Plan to CWCB	5/11/2017
CWCB approves final Plan	up to 90 days