STATE OF COLORADO

Colorado Water Conservation Board

Veva Deheza, Section Chief

Department of Natural Resources

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TO:

FROM.



John W. Hickenlooper Governor

Mike King DNR Executive Director

Jennifer L. Gimbel CWCB Director

DATE: November 2, 2011

SUBJECT:Agenda Item #24, November 15-16, 2011 Board Meeting
Proposed Guidelines Regarding the Reporting of Water Use and
Conservation Data by Covered Entities – Implementation of HB10-1051

Colorado Water Conservation Board Members

Kevin Reidy, Water Conservation Technical Specialist

Office of Water Conservation & Drought Planning

Staff Recommendation

Staff recommends final adoption of the *Guidelines Regarding the Reporting of Water Use and Conservation Data by Covered Entities*, including Appendices.

Guideline Adoption Process

This is the second reading of the proposed *Guidelines Regarding the Reporting of Water Use and Conservation Data by Covered Entities*. The CWCB's process for adopting guidelines in the past, dictate that these Guidelines are presented to the Board twice prior to final adoption. The Board may adopt the Guidelines upon their second presentation. Comments received during a 45-day public comment period, which ran from September 15 to October 31, 2011, were addressed in this final version of the Guidelines and Appendices.

Attached you will find the *Public Comment Matrix* documenting all the comments and feedback received from various Water Conservation Technical Advisory Group (WCTAG) members, water providers, and other stakeholders during the comment period. Staff worked with the WCTAG over 2 meetings in October to discuss all comments and determine responses and appropriate edits to the Guidelines and Appendices. The comment matrix provides responses to the comments.

Background

In 2010, the Colorado General Assembly adopted HB10-1051, which requires covered entities to annually report water use and water conservation data to be used for statewide water supply planning. The Bill directs the Colorado Water Conservation Board (CWCB) to adopt guidelines regarding the reporting of water use and water conservation data by covered entities, and to report to the legislature regarding the Guidelines.

Since November, 2010, the Office of Water Conservation & Drought Planning has conducted 13 meetings with the CWCB's Water Conservation Technical Advisory (WCTAG)/1051 working group, and twice with the 1051 Stakeholder Advisory Group (SAG). There are a total of 40 members on the WCTAG and 34 members on the SAG.

The WCTAG met monthly (by phone or in person), and will continue to do so after the Board adopts these Guidelines to begin working on the development of the online data reporting tool. Draft Guidelines and supporting documents have been reviewed each month, requiring an estimated total of up to 10 hours per month for attending meetings and providing input on draft documents.

The SAG expanded the perspective to provide recommendations focused on the practicality of implementing the Guidelines. The group met twice (by phone or in person) and provided review and comment on at least two draft Guidelines through August 2011, requiring an estimated total of 10 hours. All covered entities were encouraged to participate.

In developing the Guidelines, the CWCB and advisory groups considered examples of categories of customers, uses, and measurements currently reported by covered entities under existing water conservation plans, data that is anticipated to be readily available to the majority of covered entities, and data that would improve statewide water planning.

In addition to working with the advisory groups, the CWCB outreached to the IBCC Roundtables on this initiative, and presented to the Interim Water Resources Review Committee at their August 23, 2011 meeting in Steamboat Springs regarding the 1051 process and progress.

Goals of HB10-1051

Data reported under HB10-1051 will further support statewide water supply planning efforts by improving the quantity and quality of data available and improving consistency in the data reporting. The goal of the effort currently underway between the WCTAG/1051 working group and the CWCB is to produce reporting Guidelines that result in data that is useful toward statewide water supply planning, while facilitating the reporting process and also limiting the level of effort required for the covered entities in the reporting process.

Attachments

Final Guidelines Regarding the Reporting of Water Use and Conservation Data by Covered Entities

House Bill 10-1051 – An Act Concerning Additional Information Regarding Covered Entities' Water Efficiency Plan

Appendix B - Draft Reporting Data Definitions

Appendix C – The Draft Reporting Tool Template (spreadsheet for illustrative purposes only)

1051 Public Comment Matrix

COLORADO WATER CONSERVATION BOARD

Guidelines Regarding the Reporting of Water Use and Conservation Data by Covered Entities



INTRODUCTION

The purpose of this document is to describe the Colorado Water Conservation Board (CWCB) process to implement the *Act Concerning Additional Information Regarding Covered Entities' Water Efficiency Plans*, as approved under House Bill (HB) 10-1051. The Act calls for the Board to establish Guidelines¹ regarding the reporting of water use and conservation data by covered entities. A "covered entity" is defined as each municipality, agency, utility, including any privately owned utility, or other publicly owned entity with a legal obligation to supply, distribute, or otherwise provide water at retail to domestic, commercial, industrial, or public facility customers, and that has a total demand for such customers of two thousand acre-feet or more, per Section 37-60-126(1)(b) of the Colorado Revised Statutes (C.R.S.).

The CWCB developed these Guidelines through a public participation process that included outreach to stakeholders from water providers with geographic and demographic diversity, nongovernmental organizations, and water conservation professionals, per Section 37-60-126(4.5), C.R.S. A Technical Advisory Group was formed to provide recommendations and advise on the development of the specific data requirements and definitions in the Guidelines, focusing on technical issues, to ensure the usefulness of the data for statewide water supply planning. A Stakeholder Advisory Group expanded the perspective to provide recommendations focused on the practicality of implementing the Guidelines. Following development of the draft Guidelines with input from the advisory groups, the CWCB provided a full public review process with public comments incorporated in the final Guidelines. A briefing to the CWCB Board is provided as Attachment A.

In developing the Guidelines, the CWCB and advisory groups considered examples of categories of customers, uses, and measurements currently reported by covered entities under existing water conservation plans, data that are anticipated to be readily available to the majority of covered entities, and data that would improve statewide water planning. Descriptions of these data for the Guidelines were developed through the advisory groups and supplemented with terminology that is utilized within the water resources industry, as identified through published professional references.²

WATER USE AND CONSERVATION DATA REPORTING GOALS AND PURPOSE

The purpose of the data reporting, per Section 37-60-126(4.5)(a), C.R.S., is to provide water use and conservation data to be used for statewide water supply planning. The data collection process described in these Guidelines, developed as part of HB10-1051, is designed to provide better, more frequent, and more reliable data than currently available. These Guidelines create standardized reporting in that each covered entity is required to report the same type of

information. However, this does not necessarily standardize the data collection process and does not require entities to change their data/billing systems to report in a particular format.

Specific reporting categories were identified to allow the data to be utilized for annual forecasting purposes and to predict how water demands for different customer categories may evolve over time, through considering potential effects of water conservation. This information will be incorporated into existing statewide water supply planning efforts, specifically but not limited to the Statewide Water Supply Initiative (SWSI) process and the CWCB's role in supporting covered entities seeking to develop and update water conservation and drought mitigation and response plans. Additionally, data reporting will help the CWCB in developing more targeted technical outreach efforts aimed at providing better local water conservation planning tools to covered entities throughout Colorado.

Water demand and conservation savings forecasts developed under the statewide water supply planning process strive to employ consistency in data collection and forecast methodology across the state and to maximize available data. The statewide and basinwide planning efforts are not intended to replace water conservation, water resources planning, nor projections prepared by local entities for project-specific purposes. This data alone will not provide useful comparisons nor is it intended to be used to provide comparisons between utilities, but will greatly improve the statewide water supply planning efforts.

The authorizing legislation for the reporting requirements is provided as Appendix A. Specific data collection and reporting needed to meet the goal of the reporting process are provided under the subsequent sections of this document. The following Guidelines have been developed pursuant to Section 37-60-126(4.5), C.R.S. and are adopted by the CWCB.

NOTE:

All water use and conservation data reporting under these Guidelines will become public record and will be available to the public through the CWCB website. The reporting under Section 37-60-126(4.5), C.R.S. does not take the place of local conservation planning or plans that must be submitted per Section 37-60-126(2), C.R.S. These data will be used for general statewide water supply planning per section Section 37-60-126(4.5(a), C.R.S. These Guidelines shall be reviewed and updated as necessary.

REPORTING REQUIREMENTS

HB10-1051 directs the Board to establish Guidelines that include clear descriptions of categories of customers, uses, and measurements. Recognizing that each covered entity is unique in its particular water supply portfolio, distribution system, and customer base, the CWCB utilized a public outreach process to establish reporting requirements that will enhance the consistency of the data that are collected, to increase the utility of data for statewide planning purposes, and to facilitate the reporting process. In developing these Guidelines, the CWCB and advisory groups recognized that it is not possible to create data reporting categories and descriptions that are universally applicable to all covered entities. The public participation process was utilized to develop reporting guidelines that relate to a broad group of covered entities. A reporting tool, as

FINAL DRAFT

November 1, 2011

further described under the Reporting Process section below, will support the data reporting process.

To address the unique framework of each covered entity's water distribution system and customer characterization, certain water use and water conservation data will be reported by water distribution system type and customer class. Based on advisory committee input and review of the water conservation plans on file with the CWCB, the following water distribution system categories and customer classes are anticipated to represent the majority of systems:

Water Distribution Systems:

- Potable Water,
- Non-Potable Raw Water, and
- Non-Potable Reuse (or Reclaimed) Water.

Customer Categories:

- Residential (Single Family and Multi-Family),
- Utility/Municipal Facility
- Commercial, Industrial, and Institutional (CII), and
- Irrigation Only.

A list of the water use and water conservation data categories for reporting is provided below. These data are identified specifically to improve statewide water planning. Additionally, the advisory groups encouraged covered entities to collect all of the data for the value it will add to the covered entities' individual water supply planning efforts. Recognizing that all of the data may not be immediately available from all covered entities, the majority of the data are anticipated to be readily available to the majority of covered entities, based on the advisory group input. Additional descriptions and definitions are provided in Appendix B and a draft reporting tool template is provided as Appendix C. For those covered entities that have multiple water distribution systems, as described in Appendix B, certain data will be reported for each system.

Data Categories:

- 1) Contact and Submittal Information
 - a) Contact information
 - b) Reporting date
 - c) Applicable customer categories
- 2) Water Use Data by Customer Category for each Applicable Water Distribution System
 - a) Distributed water (water produced and put into distribution system)
 - b) Wholesale water provided to another entity
 - c) Frequency of billing
 - d) Metered water use

- e) Normalizing data
 - i) Population served during reporting period
 - ii) Number of active service connections
 - iii) Number of service connections with zero use
- f) Annual system water audit report
 - i) Billed unmetered water use
 - ii) Unbilled authorized water use
 - iii) Apparent losses
 - iv) Real losses
- g) Supplemental information
 - i) Irrigated acreage by customer category
 - ii) Average annual gross evapotranspiration rate for service area
 - iii) Average annual total precipitation for service area
 - iv) Typical irrigation application rate for service area
 - v) Number of housing units for each residential water use category
 - vi) Return flow information
- 3) Foundational Water Conservation Program Information
 - a) Percentage of meters under each type of meter reading method, by customer category for each applicable water distribution system
 - i) Unmetered
 - ii) Manual Read
 - iii) Estimated Read
 - iv) AMR
 - v) AMI
 - b) Frequency of meter readings by customer category for each applicable water distribution system
 - i) Monthly
 - ii) Bi-monthly
 - iii) Other (specify)
 - c) Type of billing rate structure by customer category for each applicable water distribution system
 - i) Declining tiered rates
 - ii) Fixed (flat) fee

- iii) Uniform rates
- iv) Inclining tiered rates
- v) Water budget-based rates
- vi) Seasonal rates
- vii) No charge
- viii) Other
- d) Details of billing rate structures by customer category for each applicable water distribution system
 - i) Tiers (number or name)
 - ii) Price per billing unit within each identified tier
 - iii) Consumption range within each rate tier
 - iv) Service charge/base rate/fixed charges
- e) Tap fees/development charges/connection charges or equivalent (if applicable)
- f) Water loss characterization
 - i) Meter testing program characteristics
 - ii) Large meter testing frequency
 - iii) Average replacement age for small meters
 - iv) Nature of leak detection program
 - v) Percent of system inspected annually for leaks
 - vi) Percent of pipe replaced annually throughout system
- g) Water conservation program staffing levels
- 4) Targeted Technical Assistance and Incentives
 - a) Management of utility/municipal facility demands
 - b) Management of largest water customer demands
 - c) Management of remaining customer demands
- 5) Ordinances and Enforcement Activities
 - a) Water provider's land use authority
 - b) Water waste ordinance information
 - c) New construction regulations information
 - d) Existing building stock/retrofit construction regulations information
- 6) Education
 - a) One-way educational programs information
 - b) One-way with feedback educational programs information

- c) Two-way educational programs information
- 7) Costs (staff time and other)
 - a) Total annual cost of water conservation program incurred by the utility/district
 - b) Annual cost breakdown by SWSI Conservation Levels categories for water conservation programs incurred by the utility/district (optional)
 - c) Total annual customer costs (optional)

REPORTING PROCESS

HB10-1051 directs the Board to establish Guidelines and describe how the Guidelines will be implemented and how data will be reported to the Board. A reporting tool will be developed to support the reporting process and allow covered entities to describe any cases where certain definitions in these Guidelines are not directly applicable to data available from the particular entity. It will also provide a location for metadata to be entered to describe how the data were prepared. Through outreach and communication, the CWCB may obtain additional information that can be used to improve interpretation of the reported data and the statewide water supply planning process. The draft reporting tool template provided as Appendix C is for illustrative purposes only. While the draft reporting tool is comprehensive and captures the full breadth of the potential reporting, the final reporting tool will be refined to customize and condense the required data reporting fields based on actual reporting information. For example, if the entity reports that it serves solely residential customers, the tool will not prompt questions related to water use or water conservation programs applicable to other customer categories.

Section 37-60-126(4), C.R.S. establishes certain processes and obligations for covered entities as well as the CWCB, as further described in this section.

A. Covered Entities

- i. For each annual report, covered entities shall utilize the current version of the data reporting tool to report the data identified in these Guidelines. Covered entities shall download the most recent version of the data reporting tool from the CWCB website (<u>http://cwcb.state.co.us</u>) each January 1 for use in the previous calendar year reporting. Any updates or modifications to the data reporting tool will be completed and made available to the public by December 31 of each calendar year.
- ii. Covered entities shall submit information following the Reporting Requirements section described above for the previous calendar year to the CWCB annually by June 30, starting no later than June 30, 2014 and continuing through June 30, 2020, per Section 37-60-126(4.5)(a), C.R.S. This requirement pertains to entities meeting the covered entity definition under during Section 37-60-126(4.5)(b), C.R.S. Entities will be allowed a one year grace period once becoming a covered entity. As an example, an entity that first delivers over two thousand acre-feet in 2015 (i.e. is not a covered entity for the entire calendar year of 2015) is not required to report until June 30, 2017, for the 2016 calendar year water use and water conservation data.

- iii. A covered entity responsible for administering a water conservation master plan approved by the Colorado Water Conservation Board's Office of Water Conservation and Drought Planning in compliance with Section 37-60-126, C.R.S (Integrated System Water Conservation Plan) shall be responsible for reporting information for all covered entity members of the Integrated System as specified under Reporting Process of these Guidelines. The covered entity responsible for creating the Integrated System water conservation plan as described in the "Guidelines for the Office to Review and Evaluate Water Conservation Plans" will be responsible for reporting all required information under House Bill 10-1051.
- iv. The statute repeals the reporting requirement as of July 1, 2020, per Section 37-60-126(4.5)(c)(II), C.R.S.

B. Colorado Water Conservation Board

- i. No later than February 1, 2012, the Board shall adopt Guidelines regarding the reporting of water use and conservation data by covered entities, per Section 37-60-126(4.5)(b), C.R.S. The Guidelines shall be adopted pursuant to the Board's public participation process and shall include outreach to stakeholders from water providers with geographic and demographic diversity, nongovernmental organizations, and water conservation professionals. The Guidelines shall include clear descriptions of categories of customers, uses, and measurements, how the Guidelines will be implemented, and how the data will be reported to the Board.
- No later than February 1, 2012, the Board shall provide a report to the Senate Agriculture and Natural Resources Committee and the House of Representatives Agriculture, Livestock, and Natural Resources Committee, or their successor committees, regarding the guidelines, per Section 37-60-126(4.5)(b), C.R.S.
- iii. The data reporting tool will be accessible through the CWCB website (<u>http://cwcb.state.co.us</u>) no later than December 31, 2013. Any updates or modifications to the data reporting tool will be completed and made available to the public by December 31 of each calendar year.
- iv. Beginning June 30, 2014, the annual deadline for covered entities to report water use and conservation data will be June 30, through the year 2020. CWCB shall utilize the data in statewide water supply planning efforts, per Section 37-60-126(4.5)(a), C.R.S. Data reported under these Guidelines will support statewide water supply planning efforts by improving the quantity and quality of data available and improving consistency in the data reporting. Additionally, data reporting will help the CWCB in developing more targeted technical outreach efforts aimed at providing better local water conservation planning tools to covered entities throughout Colorado.
- No later than February 1, 2019, the Board shall brief the Senate Agriculture and Natural Resources Committee and the House of Representatives Agriculture, Livestock, and Natural Resources Committee, or their successor committees, on the guidelines and data collected by the Board under the guidelines, per Section 37-60-126(4.5)(c)(I), C.R.S.

All water use and conservation data reporting under these Guidelines will become public record and will be available to the public through the CWCB website. The reporting under Section 37-60-126(4.5), C.R.S. does not take the place of local conservation planning or plans that must be submitted per Section 37-60-126(2), C.R.S. These data will be used for general statewide water supply planning per section Section 37-60-126(4.5(a), C.R.S. These Guidelines shall be reviewed and updated as necessary.

- (I) Be adopted pursuant to the board's public participation process and shall include outreach to stakeholders from water providers with geographic and demographic diversity, nongovernmental organizations, and water conservation professionals; and
- (II) Include clear descriptions of: Categories of customers, uses, and measurements; how guidelines will be implemented; and how data will be reported to the board.

² Citizen's Guide to Colorado Water Law, 3rd Edition. Colorado Foundation for Water Education, 2009.

Forecasting Urban Water Demand, 2nd Edition. American Water Works Association, 2008, R. Bruce Billings and Clive V. Jones.

Guidebook of Best Practices for Municipal Water conservation in Colorado. Colorado WaterWise, 2010. Prepared by Aquacraft, Inc. with support from Colorado Water Conservation Board.

SWSI Conservation Levels Analysis. Colorado Water Conservation Board, 2010. Prepared by Great Western Institute.

DRAFT SWSI Conservation Levels Analysis: Phase II Draft. Colorado Water Conservation Board, 2011. Prepared by Great Western Institute.

USEPA WaterSense Partnership Program. www.epa.gov/WaterSense/

Utility Water Loss, A Review of Current Practices in Colorado, Requirements of Other States, and New Procedures and Tools. Colorado Water Conservation Board, 2009. Prepared by Aquacraft, Inc.

Water Audits and Loss Control Programs, American Water Works Association Manual M36, Third Edition. 2009.

Water Conservation Measurement Metrics Guidance Report. American Water Works Association, Water Conservation Division Subcommittee Report, 2009. Benedykt Dziegielewski and Jack C. Kiefer.

Water Conservation Programs – A Planning Manual, American Water Works Association Manual M52, First Edition, 2006.

¹ Per Section 37-60-126(4.5)(b), C.R.S., the board shall adopt guidelines regarding the reporting of water use and conservation data by covered entities and shall provide a report to the senate agriculture and natural resources committee and the house of representatives agriculture, livestock, and natural resources committee, or their successor committees, regarding the guidelines. These guidelines shall:

NOTE: This bill has been prepared for the signature of the appropriate legislative officers and the Governor. To determine whether the Governor has signed the bill or taken other action on it, please consult the legislative status sheet, the legislative history, or the Session Laws.

HOUSE BILL 10-1051

BY REPRESENTATIVE(S) Pommer, Fischer, Frangas, Hullinghorst, Labuda, Looper, Pace; also SENATOR(S) Whitehead, Carroll M., Foster, Tochtrop.

CONCERNING ADDITIONAL INFORMATION REGARDING COVERED ENTITIES' WATER EFFICIENCY PLANS.

Be it enacted by the General Assembly of the State of Colorado:

SECTION 1. 37-60-126 (4) (a) (I) and (9) (a), Colorado Revised Statutes, are amended, and the said 37-60-126 is further amended BY THE ADDITION OF A NEW SUBSECTION, to read:

37-60-126. Water conservation and drought mitigation planning - programs - relationship to state assistance for water facilities guidelines - water efficiency grant program - repeal. (4) A plan developed by a covered entity pursuant to subsection (2) of this section shall, at a minimum, include a full evaluation of the following plan elements:

(a) The water-saving measures and programs to be used by the covered entity for water conservation. In developing these measures and programs, each covered entity shall, at a minimum, consider the following:

Capital letters indicate new material added to existing statutes; dashes through words indicate deletions from existing statutes and such material not part of act.

(I) Water-efficient fixtures and appliances, including toilets, urinals, CLOTHES WASHERS, showerheads, and faucets FAUCET AERATORS;

(4.5) (a) ON AN ANNUAL BASIS STARTING NO LATER THAN JUNE 30, 2014, COVERED ENTITIES SHALL REPORT WATER USE AND CONSERVATION DATA, TO BE USED FOR STATEWIDE WATER SUPPLY PLANNING, FOLLOWING BOARD GUIDELINES PURSUANT TO PARAGRAPH (b) OF THIS SUBSECTION (4.5), TO THE BOARD BY THE END OF THE SECOND QUARTER OF EACH YEAR FOR THE PREVIOUS CALENDAR YEAR.

(b) NO LATER THAN FEBRUARY 1, 2012, THE BOARD SHALL ADOPT GUIDELINES REGARDING THE REPORTING OF WATER USE AND CONSERVATION DATA BY COVERED ENTITIES, AND SHALL PROVIDE A REPORT TO THE SENATE AGRICULTURE AND NATURAL RESOURCES COMMITTEE AND THE HOUSE OF REPRESENTATIVES AGRICULTURE, LIVESTOCK, AND NATURAL RESOURCES COMMITTEE, OR THEIR SUCCESSOR COMMITTEES, REGARDING THE GUIDELINES. THESE GUIDELINES SHALL:

(I) BE ADOPTED PURSUANT TO THE BOARD'S PUBLIC PARTICIPATION PROCESS AND SHALL INCLUDE OUTREACH TO STAKEHOLDERS FROM WATER PROVIDERS WITH GEOGRAPHIC AND DEMOGRAPHIC DIVERSITY, NONGOVERNMENTAL ORGANIZATIONS, AND WATER CONSERVATION PROFESSIONALS; AND

(II) INCLUDE CLEAR DESCRIPTIONS OF: CATEGORIES OF CUSTOMERS, USES, AND MEASUREMENTS; HOW GUIDELINES WILL BE IMPLEMENTED; AND HOW DATA WILL BE REPORTED TO THE BOARD.

(c) (I) NO LATER THAN FEBRUARY 1, 2019, THE BOARD SHALL REPORT TO THE SENATE AGRICULTURE AND NATURAL RESOURCES COMMITTEE AND THE HOUSE OF REPRESENTATIVES AGRICULTURE, LIVESTOCK, AND NATURAL RESOURCES COMMITTEE, OR THEIR SUCCESSOR COMMITTEES, ON THE GUIDELINES AND DATA COLLECTED BY THE BOARD UNDER THE GUIDELINES.

(II) THIS PARAGRAPH (c) IS REPEALED, EFFECTIVE JULY 1, 2020.

(9) (a) Neither the board nor the Colorado water resources and power development authority shall release grant or loan proceeds to a

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covered entity unless such THE covered entity provides a copy of the water conservation plan adopted pursuant to this section; except that the board or the authority may release such THE grant or loan proceeds NOTWITHSTANDING A COVERED ENTITY'S FAILURE TO COMPLY WITH THE REPORTING REQUIREMENTS OF SUBSECTION (4.5) OF THIS SECTION OR if the board or the authority, as applicable, determines that an unforseen emergency exists in relation to the covered entity's loan application, in which case the board or the authority, as applicable, may impose a grant or loan surcharge upon the covered entity that may be rebated or reduced if the covered entity submits and adopts a plan in compliance with this section in a timely manner as determined by the board or the authority, as applicable.

SECTION 2. Applicability. This act shall apply to conduct occurring on or after the effective date of this act.

SECTION 3. Safety clause. The general assembly hereby finds,

determines, and declares that this act is necessary for the immediate preservation of the public peace, health, and safety.

Terrance D. Carroll SPEAKER OF THE HOUSE OF REPRESENTATIVES

Brandon C. Shaffer PRESIDENT OF THE SENATE

Marilyn Eddins CHIEF CLERK OF THE HOUSE OF REPRESENTATIVES Karen Goldman SECRETARY OF THE SENATE

APPROVED_____

Bill Ritter, Jr. GOVERNOR OF THE STATE OF COLORADO

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Guidelines Regarding the Reporting of Water Use and Conservation Data by Covered Entities

Appendix B Reporting Data Definitions

Descriptions of the data for the Guidelines were developed through the advisory groups and supplemented with terminology that is utilized within the water resources industry, as identified through published professional references.¹ The following definitions clarify specific terminology that could have multiple interpretations throughout the water industry but is not intended to be comprehensive to the extent of defining every term in the data reporting list. The definitions are intended to help provide clarity, and are not intended to promote one type of system or program over another. The metadata category of the reporting tool provides an opportunity to describe situations that are unique or need further clarification.

- 1) Distributed Water. The purpose of the distributed water information is to determine the total amount of water provided to end users (customers) through distribution system(s), based on water production records. This may also be referred to as "water production" data (i.e. amounts of water pumped into the distribution system). This may entail multiple types of distribution systems such as potable water delivered through a treated water system and/or non-potable water delivered as raw water or reuse. For example, surface water may be diverted from a stream, treated, and distributed as a potable water supply; ground water may be pumped from a well and distributed as a non-potable raw water supply, etc. May include stand-alone systems that are under the responsibility of the reporting entity.
 - a) Potable Water Into a Distribution System: Volume of treated water entering the distribution system. May include both surface and ground water supplies.
 - **b)** Non-Potable Raw Water Into a Distribution System: Volume of raw water entering the distribution system. May include both surface and ground water supplies.
 - c) Non-Potable Reuse (or Reclaimed) Water Into a Distribution System: Volume of reuse or reclaimed water entering the distribution system.
- 2) Customer Categories. Report water use data for each distribution system. The following customer categories apply to Potable Water uses and some categories may also apply to Non-Potable Raw Water and Non-Potable Reuse (or Reclaimed) water uses. The reporting tool allows reporting for each customer category within each distribution system. Based on existing water conservation plans and input from the advisory committees, the following customer categories are relevant for the majority of reporting entities. These definitions are not suggesting entities modify customer categories, rather that any exceptions be reported by describing as metadata using the reporting tool.
 - a) **Residential:** Residential water use will be differentiated by single family and multifamily uses if the covered entity tracks these customer uses separately; otherwise total residential water use may be reported.
 - (i) Single Family: Includes all billed and metered water use by single-family residential customers for indoor and outdoor uses served by a distribution system. Single-family

uses may include, but are not limited to, residential single family, large residential lots, small residential lots, owners, renters, individual mobile homes and standard Single Family Equivalent taps, ⁵/₈ inch taps, and/or ³/₄ inch taps that serve single family dwellings.

- (ii) Multi-Family: Includes all billed and metered water use by multi-family residential customers for indoor and outdoor uses in locations both inside and outside of the city/town limits. Multi-family uses may include, but are not limited to, attached residential units (e.g. duplexes, triplexes), master-metered mobile homes, apartments, condominiums, and town homes. Note that some entities may include multi-family irrigation under "irrigation only" accounts.
- **b)** Commercial, Industrial, and Institutional (CII): Includes all billed and metered water use by CII customers for indoor and combined indoor and outdoor uses (report CII taps for outdoor-only uses under the "irrigation only" category) in locations both inside and outside the city/town limits. CII uses may include, but are not limited to, commercial businesses, industry, dairies, greenhouses, hotels, motels, restaurants, offices, breweries, military, hospitals, schools, assisted living and extended care facilities, churches, airports, fairgrounds, car washes, etc. City/Municipal/District uses may be reported separately or otherwise noted.
- c) Municipal/Utility Facility: Includes all billed and metered water use by the water utility, municipality, and/or the district that operates the water utility for indoor and combined indoor and outdoor uses (report Municipal/Utility facility taps for outdoor-only uses under the "irrigation only" category). Municipal/Utility Facility uses may include, but are not limited to, recreation centers, town hall, administrative buildings, hydrants, other government uses, etc. These uses may be aggregated under the CII category.
- d) Irrigation Only: Includes all billed and metered water use by customers for outdoor watering exclusively (report Residential taps for outdoor-only uses under the appropriate Residential category). The Irrigation Only category may include, but is not limited to, city and town parks, HOAs, open space, swim clubs, landscape uses, golf courses, etc.
- e) Other: Includes any other water use not captured in the above defined categories with the exception of non-revenue (a.k.a. unaccounted for) water (reported separately). Other uses may include large short-term seasonal uses (e.g., snow making), one time construction water, bulk water, etc. Explicitly report any single "other" use that is greater than 3% of the total metered water use for a particular distribution system, separate from the general "Other" category.
- **f)** Wholesale: Includes water sold by the reporting entity to another entity, for resale to the end customer.
- 3) Metered Water Use. The purpose of the metered water use information is to determine the demand or total amount of water used by end users (customers) indoors and outdoors. Metered water use data are typically available through billing records, with entities using a variety of billing cycle periods. Individual billing records often include information regarding the type of account (i.e. customer category), meter size, meter readings, and dates of readings. The reporting tool will allow metered water use data to be entered for each

distribution system category of Potable Water, Non-Potable Raw Water, and Non-Potable Reuse (or Reclaimed) Water, such that outdoor and indoor uses can be determined.

- a) Metered Water Use: Metered water use for each customer category provided monthly, or if monthly data are not available, an estimate of monthly use from bi-monthly, quarterly, or other specified metered water use/billings.
- b) Average Monthly Indoor Use: Average monthly indoor metered water use estimated for each distribution system and customer category. Average monthly indoor water use in Colorado is often projected using metered water use data for a subset of winter months, e.g. (January + February metered use) / 2. This methodology may not apply to all communities and billing cycles may affect the specific months used to estimate indoor uses. The reporting tool will allow reporting the average monthly indoor use or specification of the months in which metered water use data are most representative of indoor uses, from which CWCB may estimate the average monthly indoor use.
- 4) Normalizing Data (or Scaling Variables). The purpose of the normalizing data is to allow water use to be evaluated on a common unit basis and to add perspective to water use trends.
 - a) **Population Served During Reporting Period:** Permanent (total year-round) residential population served reported along with the source of information (e.g. census and state demographer data). Recognizing that entities are affected differently by transient populations associated with students, tourism, jobs, military, etc., indicate whether the population is affected by these and provide an estimate if available, along with the source of information.
 - **b)** Number of Active Service Connections: Monthly number of active/billed customer accounts (service connections) by customer category.
 - c) Number of Service Connections with Zero Use: Monthly number of customer accounts (service connections) with zero consumption, by customer category. This may include accounts that are temporarily inactive but anticipated to come back on-line at a future date, accounts with zero use during portions of the year, etc.
- 5) Annual Audit Report: The purpose of the annual audit reporting data is to obtain information on water audit and loss control through real and apparent loss data. The American Water Works Association (AWWA) has developed a standard methodology for determining water loss for municipal water providers (2009 AWWA M36 Manual of Practice *Water Audits and Loss Control Programs (3rd Edition)*). For systems in which the following data cannot be provided, the CWCB will estimate real losses as the total Distributed Water minus total Metered Water Use. The sum of total Metered Water Use, apparent losses (unauthorized consumption), and real losses should equate to the total Distributed Water.
 - a) Billed Unmetered Water Use: Any unmetered water use such as customers billed at a flat rate. May also be used to account for metered uses with meters known to be highly nonfunctional, highly inaccurate, or readings are unobtainable in which case, estimates of water use are used in place of measured water use.

- b) Unbilled Authorized Water Use: Any kind of authorized water use which is unbilled (metered or unmetered). Typically describes water taken irregularly in a variety of manners from nonaccount connections that typically do not supply permanent structures. May include, but is not limited to, fire fighting, flushing of mains and sewers, street cleaning, construction, water treatment facility backwash water, etc.
- c) Apparent Losses: Nonphysical losses that occur when water is successfully delivered to the customer but, for various reasons, is not measured or recorded accurately. Includes losses in customer water use attributed to inaccuracies associated with customer metering, systematic data handling error, plus unauthorized water use (theft or illegal use of water). May include, but is not limited to, water illegally withdrawn from hydrants, illegal connections, meter equipment tampering, adjustments to metered water use for meter under- or over-registration, and billing adjustments.
- **d) Real Losses:** Physical water losses from the distribution system, up to the point of the customer's meter. May include, but is not limited to leakage from water mains and customer service connection pipes, joints, and fittings (the largest component by volume for most systems), storage tank overflows, or similar operator error.
- 6) Supplemental Information: Recognizing that the following information may not be available for many covered entities, it is requested to the extent that it is readily available or can be estimated within reasonable levels of effort.
 - a) Irrigated Acres: Best estimate of irrigated acres served by each customer category, including source of information.
 - **b)** Average Annual Gross Evapotranspiration Rate for Service Area: Average local inches of gross evapotranspiration for service area during reporting period, including source of information and method used.
 - c) Average Annual Total Precipitation for Service Area: Average local total inches of precipitation for service area during reporting period, including source of information.
 - **d)** Irrigation Application Rate: Application rate of outdoor use in gallons per square foot of irrigated area, including source of information.
 - e) Number of Housing Units: Total number of households for each residential customer category. Recognizing that data for the Multi-Family category may require audits and information on occupancy rates, provide and estimate if available along with the source of information.
 - **f) Return Flows:** Water that returns to streams, rivers, and aquifers after it has been applied to beneficial use. It may return as surface flow or as ground water flow.
- 7) Meter Types: Specify the percentage of meters under each type of meter reading method, by customer category, for each applicable water distribution system.
 - a) Manual Read: Manual meter reading with reading personnel physically visiting individual meters to collect readings.
 - **b)** Estimated Read: Estimated meter reading based on historical trends from past meter readings.

- c) AMR: Automatic meter reading where radio signals transmit the current meter reading to a device outside of the building or meter pit in which the meter is located. Mobile AMR systems allow readings to be collected by readers with hand-held devices or via automobiles patrolling scheduled meter reading routes. Fixed network AMR include permanently installed data collector units located throughout the service area.
- **d) AMI:** Advanced metering infrastructure, also referred to as smart meters, goes beyond AMR to include networking technology (telemetry) for remote leak detection, frequent meter data collection, and two-way communication between customer and utility.
- 8) Rate Structures: Provide information by customer category, for each applicable water distribution system. The reporting tool will provide an option to attach the entity's current rate structure for each customer class.
 - a) Declining tiered rates: Lower rate charges for higher quantities of water use.
 - b) Fixed (flat) fee: Fixed fee (charge) regardless of how much water is used.
 - c) Uniform rates: Same unit charge for water regardless of how much water is used.
 - d) Inclining tiered rates: Higher unit charges are triggered at higher levels of water use.
 - e) Water budget-based rates: A variation of increasing tiered rates, where tailored allocations are developed for each customer and rates increase as the allocation is used or exceeded. Tier (or block) size is typically defined by an empirical determination of efficient use for each customer using customer specific characteristics such as irrigable area.
 - **f)** Seasonal rates: Higher prices are charged during periods of scarcity (typically summer and fall) to more efficiently allocate water in times of shortage.
- 9) Educational Programs: Provide information on the types of educational programs and estimates of number of customers reached with each program.
 - a) **One-Way Education:** One-way educational efforts send out information without tracking or specific follow-up (e.g. bill stuffers).
 - **b) One-Way With Feedback Education:** One-way "with feedback" educational efforts send out information and allow for some level of tracking or feedback (e.g. K-12 classroom presentations and interactive websites).
 - c) **Two-Way Education:** Two-way educational efforts involve two-way communications (e.g. focus groups).
- **10) Point of Sale Controls:** Ordinance/regulation to provide opportunity to ensure the water efficiency features meet current regulations and/or to incentivize increased efficiency through retrofit of fixtures, appliances, landscape, and irrigation systems. Requirements can be triggered before a residence or building can be sold, transferred from one owner to another, or renovated beyond a predetermined level.

11) Costs: Costs incurred by the utility/municipality/district may be reported as a total over the past reporting period, or as a breakdown by the SWSI Level categories. See the SWSI Conservation Levels Analysis Phase II Report for more information on the categories.

¹ Citizen's Guide to Colorado Water Law, 3rd Edition. Colorado Foundation for Water Education, 2009.

Forecasting Urban Water Demand, 2nd Edition. American Water Works Association, 2008, R. Bruce Billings and Clive V. Jones.

Guidebook of Best Practices for Municipal Water conservation in Colorado. Colorado WaterWise, 2010. Prepared by Aquacraft, Inc. with support from Colorado Water Conservation Board.

SWSI Conservation Levels Analysis. Colorado Water Conservation Board, 2010. Prepared by Great Western Institute.

DRAFT SWSI Conservation Levels Analysis: Phase II Draft. Colorado Water Conservation Board, 2011. Prepared by Great Western Institute.

USEPA WaterSense Partnership Program. www.epa.gov/WaterSense/

Utility Water Loss, A Review of Current Practices in Colorado, Requirements of Other States, and New Procedures and Tools. Colorado Water Conservation Board, 2009. Prepared by Aquacraft, Inc.

Water Audits and Loss Control Programs, American Water Works Association Manual M36, Third Edition. 2009.

Water Conservation Measurement Metrics Guidance Report. American Water Works Association, Water Conservation Division Subcommittee Report, 2009. Benedykt Dziegielewski and Jack C. Kiefer.

Water Conservation Programs – A Planning Manual, American Water Works Association Manual M52, First Edition, 2006.

Contact & Submittal Information	
Utility Information	
Covered Entity Name	
Contact Name	
Contact Phone	
Contact Email	
Contact Address (Street or PO)	
Contact Address (City)	
Contact Address (State)	
Contact Address (Zip)	
Submittal Information	
Year of Data	
Report Date	

What customer categories do you have in your water distribution system(s)? (Check all that apply)

Residential	
OR	
Single Family	
Multi-Family	
Utility/Municipal Facility	
CII	
Irrigation Only Other	
Other	

Water Use Data (Potable Treated Water Only)

Enter Reporting Unit (e.g., AF, MG, thousands of gallons, etc.)	
Distributed Water (annual water production)	
Wholesale Water Provided to Another Entity or Entities (annual delivery)	

Frequency of Billing		Monthly	Bi-Monthly	Quarterly	Other (specify)
к	Residential				
l log	Single Family				
ate	Multi-Family				
0	Utility/Municipal Facility				
Be	CII				
sto	Irrigation Only				
C	Other				

anuary February March April													
Varch													
nril													
ipili													
May													
une		OR											
uly													
August													
September													
October													
November													
December													
		- 			_			1		-		r	—
Please select the most representative	e months to describe your	·											
Monthly Indoor Use (i.e. Dec., Jan., F	Feb.)	January	February	March	April	May	June	July	August	September	October	November	Dec
	-								-				

Water Use Data (Potable Treate	d Water Only)										
Normalizing Data											
Normalizing Bata										Yes	No
			1				Da				
									sient population in your		
									, second homes,		
Population Served for Year of Reporting						_	students, military, etc.)?				
							If yes, are associated population changes				
Source							seasonal, ann	ual, or othe	erwise?		
						•	If yes, what is	the estima	te of this population		
									erwise as available)?		
							Source	,, 01 01			
		٦			1			1	7		
							1	1			
Number of Active Service Connections	Residential		Single Family	Multi-Family	Utility/Municipal Facility	CII	Irrigation Only	Other			
lanuary		1					- /		1		
February		1							1		
March											
April											
May											
		OR									
une									4		
luly		_									
August		_									
September October		_							-		
November		_							-		
December		-							-		
December		_							1		
Number of Service Connections with		٦	r	1	1			1	7		
Zero Use	Residential		Single Family	Multi-Family	Utility/Municipal Facility	CII	Irrigation Only	Other			
lanuary		-							4		
February		-									
March April		-							-		
April May		-							4		
wiay .									4		
lune		OR									
luly											
August											
September											
October		_									
November		_									
December											

Water Use Data (Potable Treate	d Water Only)		
Annual Audit Report			
-			1
		Yes	No
Do you use AWWA M36 Manual of Pract Loss Control Programs (3rd Edition) for to			
wide audits?	perform system		
f no, what method is used to estimate w	ater losses?		_
		-	
Billed Unmetered Water Use			1
Inbilled Authorized Water Use			Total Distributed
Apparent Losses		OR	Total Metered W
Real Losses			

Supplemental Information

	Residential	OR	Single Family	Multi-Family	Utility/Municipal Facility	CII	Irrigation Only	Oth
Estimate of Irrigated Acres by Custome	r							
Category								
category								
Average Annual Gross								
Evapotranspiration Rate for Service								
evapotranspiration Rate for Service								
Average Annual Total Precipitation for								
Service Area (inches)								
Service Area (inclies)								
rrigation Application Rate for Service								
Area (gallons/square foot)								
area (Banons) square 100()								
Number of Housing Units	Residential		Single Family	Multi-Family				
anuary								
ebruary								
March								
April								
Иау								
une		OR						
uly								
August								
september								
Dctober								
November								

Water Use Data (Non -Potable Raw Water Only)

Enter Reporting Unit (e.g., AF, MG, thousands of gallons, etc.)	
Distributed Water (annual water production)	
Wholesale Water Provided to Another Entity or Entities (annual delivery)	

Frequency of Billing		Monthly	Bi-Monthly	Quarterly	Other (specify)
ĸ	Residential				
l log	Single Family				
ate	Multi-Family				
2	Utility/Municipal Facility				
Ĕ	CII				
sto	Irrigation Only				
5	Other				

Metered Water Use	Residential		Single Family	Multi-Family	Utility/Municipal Facility	CII	Irrigation Only	Other	Wholesale]			
January													
February													
March													
April													
May													
June		OR											
July													
August													
September													
October													
November													
December													
		-	1		1		1	1	1	1	1		
Please select the most representative	months to describe your												
Monthly Indoor Use (i.e. Dec., Jan., Fe	eb.)	January	February	March	April	May	June	July	August	September	October	November	Dece

Water Use Data (Non -Potable F	Raw Water Only)										
Normalizing Data											
										Yes	No
			1				De ver here e		sient population in your		-
							-	-			
									, second homes,		
Population Served for Year of Reporting						_	students, mili				
									oulation changes		
Source							seasonal, ann	ual. or othe	erwise?		
							If yes, what is	the estima	te of this population		
									erwise as available)?		
							Source	any, or our	er mise us uvulusiej.		
							500/00				
		1			1			1	1		
				1				1			
Number of Active Service Connections	Residential		Single Family	Multi-Family	Utility/Municipal Facility	сп	Irrigation Only	Other			
anuary		1		,	,,	-	3/		1		
February									1		
March											
April											
Vay											
		OR									
une		UK									
uly											
August											
September											
Dctober											
November									_		
December											
		-			1		1	-	7		
Number of Service Connections with				1				1			
Zero Use	Residential		Single Family	Multi-Family	Utility/Municipal Facility	CII	Irrigation Only	Other			
anuary											
ebruary											
Varch											
April		_									
Мау											
une		OR									
uly											
August		_									
September											
October		_									
November		_									
December									1		

Water Use Data (Non -Potable	Raw Water Only)		
Annual Audit Report			
		Yes	No
Do you use AWWA M36 Manual of Prac			
Loss Control Programs (3rd Edition) for	to perform system		
wide audits?			
f no, what method is used to estimate	water losses?		
Billed Unmetered Water Use		1	
Jnbilled Authorized Water Use			Total Distributed/
Apparent Losses		OR	Total Metered Wa
Real Losses			

Supplemental Information

	Residential	OR	Single Family	Multi-Family	Utility/Municipal Facility	CII	Irrigation Only	Other
Estimate of Irrigated Acres by Customer								
Category								
Average Annual Gross								
Evapotranspiration Rate for Service								
Average Annual Total Precipitation for								
Service Area (inches)								
Irrigation Application Rate for Service								
Area (gallons/square foot)								
Number of Housing Units	Residential	٦	Single Family	Multi-Family	l			
January			<u> </u>					
February								
March								
April								
May								
June		OR						
June July		UR						
July								
July August								
July August September								

Water Use Data (Non-Potable Reuse Water Only)

Enter Reporting Unit (e.g., AF, MG, thousands of gallons, etc.)	
Distributed Water (annual water production)	
Wholesale Water Provided to Another Entity or Entities (annual delivery)	

Frequency of Billing		Monthly	Bi-Monthly	Quarterly	Other (specify)
к	Residential				
l log	Single Family				
ate	Multi-Family				
0	Utility/Municipal Facility				
a a	CII				
sto	Irrigation Only				
C	Other				

Metered Water Use	Residential]	Single Family	Multi-Family	Utility/Municipal Facility	CII	Irrigation Only	Other	Wholesale				
January													
February													
March													
April													
May													
June		OR											
July													
August													
September													
October													
November													
December													
		-			_					-			
Please select the most representativ	e months to describe your												
Monthly Indoor Use (i.e. Dec., Jan., I	Feb.)	January	February	March	April	May	June	July	August	September	October	November	D
,	-												

Water Use Data (Non-Potable R	euse Water Only)									
Normalizing Data											
										Yes	No
			1				De une have			l – – – – – – – – – – – – – – – – – – –	
								-	sient population in your		
									, second homes,		
Population Served for Year of Reporting							students, mili	tary, etc.)?			
							If yes, are ass	ociated pop	oulation changes		
Source							seasonal, ann	ual, or othe	erwise?		
							If yes, what is	the estima	te of this population		
									erwise as available)?		
							Source	,, 0. 0			
							500,00				
									1		
Number of Active Service Connections	Residential		Single Family	Multi-Family	Utility/Municipal Facility	CII	Irrigation Only	Other			
anuary											
ebruary											
March											
April											
May											
		OR									
une		UK									
uly											
August											
September											
Dctober		_									
November		_									
December		_							<u>_</u>		
		7			1		1		1		
Number of Service Connections with											
Zero Use	Residential		Single Family	Multi-Family	Utility/Municipal Facility	CII	Irrigation Only	Other			
anuary											
February											
March		_									
April		_									
Иау											
une		OR									
uly											
August											
September											
October		_									
November		_									
December		-									

Water Use Data (Non-Potable R	euse Water Only)		
Annual Audit Report			
		Yes	No
Do you use AWWA M36 Manual of Pract			
Loss Control Programs (3rd Edition) for t	o perform system		
wide audits?			L
f no, what method is used to estimate v	ater losses?		
Billed Unmetered Water Use		7	
Jnbilled Authorized Water Use			Total Dis
Apparent Losses		OR	Tota
Real Losses			

Supplemental Information

	Residential	OR	Single Family	Multi-Family	Utility/Municipal Facility	CII	Irrigation Only	Other
Estimate of Irrigated Acres by Customer								
Category								
Average Annual Gross								
Evapotranspiration Rate for Service								
Average Annual Total Precipitation for								
Service Area (inches)								
Irrigation Application Rate for Service								
Area (gallons/square foot)								
Number of Housing Units	Residential	٦	Single Family	Multi-Family	l			
January			<u> </u>					
February								
March								
April								
May								
June		OR						
June July		UR						
July								
July August								
July August September								

Metering and Billing (Meter Types, Frequency of Meter Reading, Type of Rate Structures and Tap Fees)

							Percentage of	ach Type										
M	ter Types			Treated Water				Non	Potable Raw Wat	er			Non-Potable Reuse Water					
														Estimated				
		Unmetered	Manual Read	Estimated Read	AMR	AMI	Unmetered	Manual Read	Estimated Read	AMR	AMI	Unmetered	Manual Read	Read	AMR	AMI		
2	Residential																	
6	Single Family																	
at a	Multi-Family																	
2	Utility/Municipal Facility																	
Ē	CII																	
ž	Irrigation Only																	
ŭ	Other																	

Fre	quency of Meter Reading		Treated Water		N	on-Potable Raw W	/ater	Non-Potable Reuse Water				
		Monthly	Bi-Monthly	out	Monthly	Bi-Monthly	out	Monthly		Other		
		Montniy	BI-MONTHLY	Other (specify)	Monthly	BI-Montniy	Other (specify)	Monthly	BI-MONTNIY	(specify)		
≥	Residential											
080	Single Family											
at	Multi-Family											
5	Utility/Municipal Facility											
m	CII											
sto	Irrigation Only											
3	Other											

Rate Structure

Rate	e Structure			Treat	ed Water							Non-Potable	Raw Water							Non-Potable	Reuse Water		
																Other							Other
		Declining		Inclining	Water Budget-			Other (Please	Declining	Fixed (Flat)	Uniform	Inclining	Water Budget-			(Please	Declining	Fixed (Flat)	Uniform	Inclining	Water Budget-	Seasonal	(Please
		Tiered Rates Fixed (Flat) Fee	Uniform Rates	Tiered Rates	Based Rates	Seasonal Rates	No charge	Explain)	Tiered Rates	Rates	Rates	Tiered Rates	Based Rates	Seasonal Rates	No charge	Explain)	Tiered Rates	Rates	Rates	Tiered Rates	Based Rates	Rates	No charge Explain)
Z	Residential																						
8	Single Family																						
ate	Multi-Family																						
1	Utility/ Municipal Facility																						
Ĕ	CII																						
sto	Irrigation Only																						
J	Other																						

Details of Rate Structure(s) - Note: This will be generated for whichever or however many rate structures are chosen from above.

Tiers (number or name)			
Price/billing unit within each rate tier (\$)			
Consumption range within each rate tier (gallons)			
Service charge/base rate/fixed charges			
Other (if rate structure does not fit the provided format)			

_

Metering and Billing (Meter Types, Frequency of Meter Reading, Type of Rate Structures and Tap Fees) Tap Fees/Development Charges/Connection Charges or Equivalent (if applicable)

Does the square footage and type of landscaping affect you tap fee pricing or is tap size	Size and type	
the basis for irrigation tap fees?	of landscaping	Tap Size
Check all that apply		

What is your irrigation tap fee schedule? Choose one Category

	Categories							
	Tap Size Ba	Tap Size Based Irrigation Tap Fees						
Landscape type	Define Type (if needed)	Irrigation Requirement Tap Fee Unit	Cost per unit	Tap Size Component (if any) of Irrigation Requirement Tap Fee		Tap Size Bas Fee	ed Irrigation Tap	
low water, high water,	(Square Foot,						
permanent irrigation,		Acre Foot, tap						
establishment		equivalent						
irrigation(EXAMPLE)		(define)		Tap Size	Cost	Tap Size	Cost	
				3/4"		3/4"		
				1"		1"		
				1.5"		1.5"		
				2"		2"		
				3"		3"		
				4"		4"		
				6"		6"		

Who calculated the tap size required? (check one)	Developer	Water Provider
Who calculates the irrigation requirement of the landscape?		
(check one)	Developer	Water Provider

Which are your non-residential indoor tap fees based on (check all that apply)

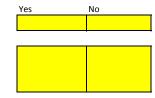
Tap size provided by developer	water	Water Demands calculated by water provider

If water demands are calculated what is the calculation method (check all that apply) Size of Building Calculated GPM building requirement Type of business

Water Loss Characterization

Do you have a meter testing and repair program?

Do you adhere to the AWWA Policy Statement for Metering and Accountability as illustrated in the AWWA M36 Manual of Practice-Water Audits and Loss Control Programs (3rd Edition)?



If not, what are your testing, repair, and maintenance policies or procedures?

Do you test your largest meters (> 1 inch) ? (describe)

How often do you test your largest meters?

What is the average replacement age for small meters (1 inch or less)?

Status of Water Loss Characterization

			Date of Last
(Check all that apply)	Yes	No	Audit
Performed System Wide Audit (using AWWA M-36			
Methodology)			
	T	1	_
Nature of Leak Detection Program	Yes	No	
Reactive approach to leak detection (when water is			
evident at surface corrective action is taken)			
Active Use of Accounting Methods to Find Leaks			
Active Use of Field Testing Methods to Find Leaks			
What type of technology is used in the field to find leaks			
(describe)?			
How much of system is inspected annually for leaks (%)?			
How much pipe is replaced annually in system (% of of		1	
total system)			

Staffing

Is There a Staff Person Assigned to Water Conservation Program Management? (check all that apply)

Type of Staffing	Yes	If Yes, how many ?	No
Full Time			
Part Time (if yes, provide estimated number of hours per week budgeted for water conservation program management)			
Contracted Labor			
Non-Profit Organization			
Other			

Targeted Technical Assistance and Incentives (quantify efforts from reporting period)

Level 1-Management of Util	ity/Municipal Facility Demands (Check all that apply)								
-				Number performed during	Have you done this program prior to THIS				
Fechnical Assistance		Yes	No	reporting period	reporting period?	If YES, Start date - end date	Additional Informa	tion	
	Specialty Trainings and Workshops								
	Indoor Facility Efficiency Evaluations								
	Irrigation Efficiency Evaluations								
	Landscape Design Assistance								
	Process Water Efficiency Evaluations (i.e. COOLING TOWERS, fleet								
	vehicle wash facilities etc.)								
	Other (describe)								
					What level of				
					technology is				
				Number performed during	incentivized? (i.e.				
				reporting period (specify	gallons per flush,	Have you done this program			
				number of giveaways vs	gallons per minute,	prior to THIS reporting	If YES, Start date -		
centives	Indoor Fixtures/Appliances	Yes	No	rebates vs retrofits)	etc.)	period?	end date	Additional Informa	ation
	Toilets								
	Urinals								
	Showerheads								
	Faucet Aerators								
	Clothes Washers								
	Dish Washers								
	Other (describe)								
				Number of each rebated/distributed in last					
				reporting period (specify		House you done this program			
				number of giveaways vs		Have you done this program prior to THIS reporting	If YES, Start date -		
	Landscape Irrigation Equipment	Yes	No	rebates vs retrofits)		period?	end date		
	Rain Sensors (including rain and wind sensors)								
	Soil Moisture Sensors								
	ET Controllers								
	Other (describe)								
				A manual of an investor for the	1				
				Amount of square feet		Have you done this program			
	Landscape Installation	Yes	No	removed/converted in last		prior to THIS reporting period?	If YES, Start date - end date		
	Turf Replacement with low water use plant materials	Tes	NU	reporting period		periour	end date		
	Soil Amendment								
	Other (describe)								
	· ·				What level of			1	
					technology is				
				# performed during	incentivized? (i.e.				
				reporting period (specify	gallons per flush,	Have you done this program			
				number of giveaways vs	gallons per minute,	prior to THIS reporting	If YES, Start date -		
	Other (describe)	Yes	No	rebates vs retrofits)	etc.)	period?	end date		

Targeted Technical Assistance and Incentives (quantify efforts from reporting period)

Level 2-Management of Large	est Water Customers Demands (Check all that apply)									
Technical Assistance	Specialty Trainings and Workshops	Residential	СІІ	Irrigation Only	Other	Number of each performed/distributed in last reporting period (specify number of giveaways vs rebates vs retrofits)	Have you done this program prior to THIS reporting period?	If YES, Start date - end date	Additional Infor	mation
	Indoor Facility Efficiency Evaluations									
	Irrigation Efficiency Evaluations Landscape Design Assistance									
	Process Water Efficiency Evaluations (i.e. COOLING TOWERS, CHIP									
	MANUFACTURERS, car/fleet washes etc.)									
	Other (describe)									
						Number of each rebated/distributed in last reporting period (specify number of giveaways vs rebates vs	What level of technology is incentivized? (i.e. gallons per flush, gallons per	Have you done this program prior to THIS reporting	If YES, Start date-	
Incentives	Indoor Fixtures/Appliances	Residential	CII	Irrigation Only	Other	retrofits)	minute, etc.)	period?	end date	Additional Information
	Toilets Urinals									
	Showerheads									
	Faucet Aerators									
	Clothes Washers									
	Dish Washers Other (describe)									
	outer (describe)									
	Landscape Irrigation Equipment	Residential	СІІ	Irrigation Only	Other	Number of each rebated/distributed in last reporting period (specify number of giveaways vs rebates vs retrofits)		Have you done this program prior to THIS reporting period?	If YES, Start date- end date	Additional Information
	Rain Sensors (including rain and wind sensors)									
	Soil Moisture Sensors ET Controllers									
	ET Controllers Other (describe)									
	Landscape Installation	Residential	СІІ	Irrigation Only	Other	Amount of square feet removed/converted in last reporting period		Have you done this program prior to THIS reporting period?	If YES, Start date end date	Additional Information
	Turf Replacement with low water use plant materials									
	Soil Amendment Other (describe)									
		Desident'-'	C 11	Injustice Only	Other	Number of each rebated/distributed in last reporting period (specify number of	gallons per flush,	Have you done this program prior to THIS reporting	If YES, Start date-	
	Other (describe)	Residential	ui	Irrigation Only	Other	giveaways vs rebates vs	gallons per	period?	end date	

Targeted Technical Assistance and Incentives (quantify efforts from reporting period)

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Level 3- Management of Remaining Customer Demands (Check all that apply)

Technical Assistance		Residential	СІІ	Irrigation Only	Other	Number of each performed/distributed in last reporting period	Have you done this program prior to THIS reporting period?	If YES, Start date - end date	Addition	al Information
	Specialty Trainings and Workshops									
	Indoor Facility Efficiency Evaluations Irrigation Efficiency Evaluations									
	Landscape Design Assistance									
	Process Water Efficiency Evaluations (i.e. COOLING TOWERS, CHIP									
	MANUFACTURERS, car/fleet washes etc.)									
	Other (describe)									
Incentives										
	Indoor Fixtures/Appliances	Residential	CII	Irrigation Only		Number of each rebated/distributed in last reporting period (specify number of giveaways vs rebates vs retrofits)	What level of technology is incentivized? (i.e. gallons per flush, gallons per minute, etc.)	Have you done this program prior to THIS reporting period?	If YES, Start date - end date	Additional Information
	Indoor Fixtures/Appliances	Residential		Irrigation Only	Other	retronts	per minute, etc.)	period?	- end date	Additional information
	Toilets Urinals									
	Showerheads Faucet Aerators									
	Clothes Washers									
	Pre-rinse spray valves									
	Dish Washers									
	Customer Water Use Monitoring Device									
	Indoor Water Audit Kits									
	Other (describe) Landscape Irrigation Equipment	Residential	СІІ	Irrigation Only	Other	Number of each rebated/distributed in last reporting period (specify number of giveaways vs rebates vs retrofits)		Have you done this program prior to THIS reporting period?	If YES, Start date - end date	Additional Information
	Rain Sensors (including rain and wind sensors)									
	Soil Moisture Sensors ET Controllers									
	Other (describe)									
	Landscape Installation	Residential	СІІ	Irrigation Only	Other	Amount of square feet removed/converted in last reporting period		Have you done this program prior to THIS reporting period?	If YES, Start date - end date	Additional Information
Turf Replacement with low water use plant materials Soil Amendment Other (describe)										
		Residential	CII	Irrigation Only	Other	Number of each rebated/distributed in last reporting period (specify number of giveaways vs rebates vs retrofits)	What level of technology is incentivized? (i.e. gallons per flush, gallons per minute, etc.)	Have you done this program prior to THIS reporting period?	If YES, Start date- end date	Additional Information
	Other (describe)									

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Ordinances

	Yes	No	Other (describe)
Do you, as a water provider, have			
authority over land use?			

Water Waste

Level 1-Water Waste Ordinance

check all that apply	 	Limits to Irrigation		Washing and Hosing	Repair	Day of Week Watering Restrictions	Other (describe)
Yes			,				, , , , , , , , , , , , , , , , , , ,
Voluntary							
Mandatory							
Variable*							

* dependant on determination of stage of water shortage or other utility/district action

Level1- Enforcement of Water Waste

									Number of	Who
									each	controls
	Water Waste			Limits on Car Washing	Limits on Power-	Failing to	Day of Week		performed	enforcment
	Ordinance/Regulation in	Time of Day	Limits to Irrigation	(e.g., automatic	Washing and Hosing	Repair	Watering		in last	for
check all that apply	place	Restrictions	Runoff	shutoff on hose)	Down Pavement, etc.	Leaks	Restrictions	Other (describe)	reporting	ordinance?
Warnings										
Fines										
Account Restrictions										
Account Shut-Offs										
Other (describe)										

New Construction

Level 2- New Construction Regulations

check all that apply	Residential	Municipal	CII	Irrigation Only
EPA Water Sense Specification				
Soil Amendments				
Turf Restrictions				
Landscape Design Requirements				
Landscape Installation Requirements				
Irrigation Design Requirements				
Process Water Design Requirements				
Other (describe)				

Ordinances					
			Number of each	Who controls	
Level 2-Enforcement/Inspection of New			performed in last	enforcment for	
Construction	check all that apply	Yes	reporting period	ordinance?	
	Plan Reviews				
	Field Inspections				
	Other (describe)				
					-
Existing Building Stock					
		[1	1	1
Level 3-Existing/Retrofit Construction					
Regulations	check all that apply	Residential	Municipal	CII	Irrigation Only
	EPA Water Sense Specification				
	Soil Amendments				
	Turf Restrictions				
	Landscape Design Requirements				
	Landscape Installation Requirements				
	Irrigation Design Requirements				
	Car Wash Certification/Requirements				
	Process Water Design Requirements				
	Point of Sale Controls				
	Other (describe)				
	Other (describe)				
		r	1	1	1
Level 3-Enforcement/Inspection of			Number of each	Who controls	
Existing/Retrofit Construction			performed in last	enforcment for	
Regulations	check all that apply	Yes	reporting period	ordinance?	
inc guideline	Plan Reviews	165	reporting period	or annunce 1	
	Field Inspections				
	Other (describe)				l

Education

Level 1- One Way Educational Programs

check all that apply	Yes	Number of pieces of literature, website visits, attendees, etc. during reporting period. *
Bill Stuffers		
Newsletters		
Door Hangers		
Informational Website		
Mass Mailings		
Water Wise Demonstration Garden(s)		
Other (describe)		
* Describe the measure of occurences in metadata (e.g. pieces of li	terature versus	customers reached).

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Level 2-One Way with Feedback Educational Programs

check all that apply	Yes	Number of pieces of literature, website visits, attendees, etc. during reporting period. *
K-12 Classroom Programs		
Water Fairs		
Interactive Websites		
Customer Informational Workshops		
Organizational Messaging Programs		
Customer Surveys		
Other (describe)		
* Describe the measure of occurences in metadata (e.g. pieces of li	terature versus	customers reached).

Level 3-Two Way Educational Programs

		Number of pieces of
		literature, website visits,
		attendees, etc. during
check all that apply	Yes	reporting period. *
Community Working Groups		
Focus Groups		
Citizen Advisory Boards		
Organizational Messaging Campaigns (multi-media)		
Other (describe)		
* Describe the measure of eccurences in metadata (e.g. pieces	of literature versu	is sustamors reached)

* Describe the measure of occurences in metadata (e.g. pieces of literature versus customers reached).

Costs Incurred Over Last Reporting Period

Costs Incurred Only by the Utility/Municipality/District over Last Reporting Period Staff Other Costs* Total Total Annual Cost of Water Conservation Program (only dedicated staff and budget) OR Image: Cost Stress of Conservation Program (only dedicated staff and budget) Annual cost breakdown by SWSI Conservation Level Category - Refer to SWSI Image: Cost Stress of Conservation Level Category - Refer to SWSI Image: Cost Stress of Conservation Level Category - Refer to SWSI Conservation Levels Analysis Phase II Report for definitions (optional, but desired if provider can break this down to level) Image: Cost Stress of Cost Stress o

* Costs of incentives such as rebates or audit kits, supplies to carry out programs and measures, costs of equipment to carry out programs and measures.

Customer Costs (optional)

Total Annual Customer Costs of Water Conservation Program

	Total



Data Category	Author	Comments	Response
Number of Housing		Require an estimate of the number of multi-family households served	
Units	WRA	by the system.	
Irrigated Acres by			
Customer Category	WRA	Require an estimate of the irrigated area served by the system.	
		Retitle section to "Recommended Information" or "Mandatory-If	
Supplemental	Aquacraft	Currently Available"; if currently not available, make it mandatory after	The Technical Advisory Group identified this
Information	(DeOreo)	1 or 2 year period	as a valuable piece of information both for
Number of Housing	Aquacraft		statewide water supply planning and for
Units	(DeOreo)	Number of multi-family units served needs to be reported.	utilities, and that it should be provided if
Irrigated Acres by	Aquacraft	Best estimate of irrigated area for at least the SF, MF, and irrigation	available, but also recognized that this data
Customer Category	(DeOreo)	accounts.	may be difficult for some entities to collect.
Supplemental		Data labeled "optional" should be required, particularly multi-family	Removed the word "optional" in the category
Information	CEC	and irrigated area.	heading, leave the category as
Supplemental		Data labeled "optional" should be "recommended" or "encouraged"	"Supplemental". Added sentence at beginning
Information	CWW	but voluntary and remain unrequired at this time.	of the definitions about the benefit of all of this
	Aurora	Normalizing data reporting should be optional fields for the raw water	information to utilities and request reporting to
Normalizing Data	Water	and reuse water systems.	the extent available.
Irrigated Acres by		Irrigated acreage by customer category - is impossible to collect for a	
Customer Category	Ute Water	Domestic water provider and also none of the State's business.	-
Irrigated Acres by		Few utilities have the square feet of irrigated area for each parcel and	
Customer Category	Ft. Collins	it's costly to obtain.	
Employment/Student	Aquacraft	Estimate of total employment and number of students in the CII sector	
Population	(DeOreo)	should be reported.	Addressed in normalizing data reporting.
	Aquacraft		Addressed by Distributed Water and
Distributed Water	(DeOreo)	Amount of imported and exported water needs to be reported.	Wholesale definitions.
	Aquacraft	Should include all metered use, both billed and unbilled; include only	
Metered Water Use	(DeOreo)	water delivered to a customer of the agency (not exported).	Addressed by Definition 3.



Data Category	Author	Comments	Response
_	Aquacraft	Unbilled authorized uses should be changed to "total authorized	Comment addressed by using AWWA M36
Annual Audit Report	(DeOreo)	unbilled use".	terminology.
		Recommendations to revise audit section to add Total supplied water	
		to customers; Total unmetered deliveries to customers; Total	
		authorized unmetered deliveries; Total losses calculated; Estimate of	
		unauthorized use in the system; Estimate of average customer meter	Technical Advisory Group recommended at
		under-resignation; Real losses calculated; Total apparent losses;	October 26, 2011 meeting to include
	Aquacraft	Total percent of supplied water accounted for by metered deliveries,	categories in M36 Figure 2-1 Column 5, but
Annual Audit Report	(DeOreo)	real losses and apparent losses.	not further details in Column 6.
		Wholesale deliveries should not be reported; wholesale customers	Added box in draft reporting tool template and
	Aurora	should be responsible for reporting the amount entering the	added Wholesale monthly water use
Distributed Water	Water	distribution system and the end use of such water.	reporting.
			Technical Advisory Group recommended at
			October 26, 2011 meeting to include
	Aurora	The ability for an entity to provide Unbilled Authorized Water Use	categories in M36 Figure 2-1 Column 5, but
Annual Audit Report	Water	should be available even if AWWA M36 is not strictly followed.	not further details in Column 6.
			The advisory groups determined that the
			categories identified are applicable to the
		The City does not separate out Utility and Municipal use from	majority of entities; please use discretion to
		Commercial use category, wanting to clarify that this is not a required	address exceptions and explain with
Metered Water Use	Arvada	customer category.	metadata.
			Changed question to ask if entity uses M36 or
		Apparent losses - based on the definition in the appendix, it does not	what other method was used; keep categories
		seem necessary to have this listed as a separate category for	in column 5 of AWWA M36 Table 2-1; entities
Annual Audit Report	Arvada	reporting.	should fill out data as available.
	Colo	Provide ability for provider to report whether transient population is	
	Springs	seasonal, annual, or otherwise and provide structure to report	
Normalizing Data	Utilities	estimates, if available to the provider.	Information can be provided in metadata repor
			Observed exception to apply it antitude 1000
	0.1		Changed question to ask if entity uses M36 or
	Colo		what other method was used; keep categories
	Springs	Allow provider some method to state whether they use M36 or not. If	in column 5 of AWWA M36 Table 2-1; entities
Annual Audit Report	Utilities	so, allow them to report the specific detail derived by M36 process.	should fill out data as available.



Data Category	Author	Comments	Response
	Colo	Return Flows - Does "recapturing" return flows include reuse by	
Supplemental	Springs	exchange? Does the percentage include water reused by	
information	Utilities	augmentation?	Addressed with return flow definition.
Annual Audit Panart	Craalay	Linnessen in the constrate Apparent Longer and Real Longer	Technical Advisory Group recommended at October 26, 2011 meeting to include categories in M36 Figure 2-1 Column 5, but not further details in Column 6.
Annual Audit Report	Greeley	Unnecessary to separate Apparent Losses and Real Losses.	
Landscape Savings	Greeley	" reporting landscape savings data may not be feasible the very next year following retrofitting since it usually requires a full season to evaluate its effectiveness. Furthermore, Greeley reports the efficiency following retrofits as water savings alone is weather dependent."	The Technical Advisory Group identified this as a valuable piece of information both for statewide water supply planning and for utilities, and that it should be provided if available, but also recognized that this data may be difficult for some entities to collect.
g_		<u> </u>	Please report the best information available
Multi-Family Water Use	Ft. Collins	Many multi-family water customers share a water tap and per capita usage is not distinguishable.	and use discretion to address exceptions and explain with metadata.
		Water use can be measured at three possible locations: (1) the raw water diversion from a stream or reservoir; (2) at the treatment plant but factor in whether measured before or after backwash of the filters which can be a substantial amount of water; and (3) at the meter to individual customers. The guidelines do not address raw water diversions at all. The annual water produced needs to be defined as to whether it is total water produced including any uses at the treatment plant (e.g. backwash) or is the estimate of water to the distribution system. Many entities do not measure water to the distribution system but only total water produced. How will the guidelines address this? The meter readings at the customer location are more straightforward and maybe the best source of base data to	The advisory groups determined that the categories identified are applicable to the majority of entities; please use discretion to address exceptions and explain with metadata. The purpose of the distributed water reporting is to provide information toward losses within the distribution system. Estimates should be provided if a full system
Distributed Water	LAPLAWD	monitor statewide water use.	water audit is not available.



Data Category	Author	Comments	Response
Metered Water Use	LAPLAWD	When reporting water production on an annual basis the typical timeframe is usually January 1 thru December 31. When reporting metered water use, there is usually a lag that does not match the water production. This can skew the comparison between metered water use and water production. How is this going to be addressed?	Frequency of meter reading questions, along with meta data provided on the distributed water data may be used to address this topic.
Normalizing Data	LAPLAWD	Population is typically not static for most systems. What should the reported population number reflect? Population at the beginning of the period, ending population, average population, high or low population for that reporting period, etc.	In addition to the average annual population served question, a question was added to identify the an estimate of transient population on whatever time scale it is available (monthly, seasonal, annual, etc.), as this affects communities differently.
Normalizing Data	LAPLAWD	Population is just a best guess on the part of most utilities because US Census or State Demographer do not estimate population on a water system basis. Utilities usually estimate population on a "persons per household" such as 2.5 people per home. This can have significant error of 20% or more, especially for smaller systems. This can have a dramatic effect on the calculations when determining water use per capita. How will the guidelines address the potential for dramatic swings in water use per capita solely because entities change their method of estimating population?	be normalized on a household/unit basis and monthly estimates of units in each water
Supplemental	LAPLAWD	Water use is extremely affected by climatic conditions. How will the Board differentiate changes in water use attributable to conservation vs. climate? For instance, during a very dry mild winter many people will water their outdoor landscaping during months that typically see no or little, outdoor water use. Conversely, a wet cool summer will reduce outdoor water use. Neither of these have any connection to a conservation program, but the data could be used to indicate that a conservation program is being effective.	Certain climate data (average annual evapotranspiration and precipitation) are included in the reporting. Temperature data was anticipated to be more readily available and therefore was not included in the reporting but will be considered in trend/correlation analyses of the data.



Section:

Potable Treated Water Data

Data Category	Author	Comments	Response
Non-Potable & Reuse	Water Com	ments:	
Reuse	GWI	Ask if water supply includes transmountain diversions and/or non- tributary groundwater.	Water supply system profile information can be obtained from Water Conservation/Efficiency Plans. This annual reporting starts on the distribution side and any "imported" water is included for a mass balance but did not specifically ask about the source.
Annual Audit Report	Aurora Water	Audit reporting should be optional fields for the raw water and reuse water systems.	Comment noted for online reporting tool enhancements.
Normalizing Data	Colo Springs Utilities	Make normalizing data optional. Colorado Springs only served non- potable water to CII customer, so normalizing data is meaningless.	Normalizing data is desired to the extent it is available; please use discretion to address exceptions and explain with metadata.
Raw versus Reuse Data	Colo Springs Utilities	Make it an option to combine raw and reuse water data as it is very difficult or impossible to differentiate each by customer classification.	If raw and reuse water cannot be separated for a particular situation, please select one category to report under and explain with metadata.
Conservation Oriented Tap Fees	Colo Springs Utilities	Make annual audit report optional for all non-potable water reporting.	Audit data is desired to the extent it is available; if it is not applicable for a particular situation, please explain with metadata.



Section: Foundational Data I

Data Category	Author	Comments	Response
Details of Rate	Northern	Add an Other category to include metadata about how rate structure works, if it	Expanded the note in the draft reporting tool template; added "other" box
Structure	Water	does not fit into template	(online reporting tool will facilitate).
Details of Rate		Rate structure that captures tiers for residential needs to be duplicated for other	Expanded the note in the draft reporting tool template; added clarification to
Structure	GWI	customer categories and for different water sources.	Guidelines document.
			Added "if applicable" to Guidelines document and draft reporting tool
Conservation			template. The categories were based on Westminster and Parker programs,
Oriented Tap			and reviewed by Technical Advisory Group for general consistency with
Fees	GWI	Show as voluntary.	relevant existing programs.
	Aquacraft		
Meter Types		Revise "Manual Read" to Physical Meter Reading.	Added "physical" to the definitions document.
	Aquacraft		
Meter Types		Add "Estimated Meter Read".	Added guestion.
	Aquacraft		One section is frequency of billing and the other is frequency of meter
Meter Readings		Appears to be repeat of Frequency of Billing	readings.
	Aquacraft		Updated definitions using AWWA M52 and Forecasting Urban Water
Rate Structure	(Mayer)	Edit rate terminology (see Mayer's redlines of Guidelines Doc)	Demands. Removed text related to rate structures encouraging conservation.
Details of Rate	Aquacraft		Updated definitions using AWWA M52 and Forecasting Urban Water
Structure		Edit rate terminology (see Mayer's redlines of Guidelines Doc)	Demands. Removed text related to rate structures encouraging conservation.
Details of Rate	Aquacraft		
Structure		Add "Billing units (kgal, CCF, M3, etc.)	Comment noted for online reporting tool enhancements.
	Aurora	Regarding meter reading, should be omitted or an approximate % should be	
Meter Types	Water	sufficient	Changed to percentage versus number of meters.
		If rate structure data is to be collected, considerable time should be dedicated to	
		making the reporting tool flexible enough to accept the complexities of various	
		rate structures for each customer class. Alternatively, some general questions	
	Aurora	about rate structures may be sufficient and be much less onerous for the state to	
Rate Structure	Water	compile.	Comment noted for online reporting tool enhancements.
Conservation		If tap fee schedules will be collected, additional tables for each customer class	
Oriented Tap	Aurora	may be necessary. Alternatives should be considered to reduce the required	
Fees	Water	effort by the State in compiling this data.	Comment noted for online reporting tool enhancements.
			The types of meters and frequency of readings will be used to better
Meter Readings		How meters are read - that is none of the State's business.	understand the availability and quality of water use data.
Conservation	Colo		
Oriented Tap	Springs	Change this to "Tap Fees/Development Charges/Connection Charges or	
Fees	Utilities	Equivalent"	Change made.
Conservation	Colo		
Oriented Tap	Springs	This will require careful designed in the tool in order for this information to be	
Fees	Utilities	utilized efficiently and effectively.	Comment noted for online reporting tool enhancements.
Conservation	Colo		The categories were based on Westminster and Parker programs, and
Oriented Tap	Springs		reviewed by Technical Advisory Group for general consistency with relevant
Fees	Utilities	"Who calculated the tap size required?" - Is this really important and useful.	existing programs.



Section: Foundational Data II

Data Category	Author	Comments	Response
Meter Age	Greeley	Greeley at this time has no way or providing the ages of meters.	
		Reporting the exact number of meters in each age category should be changed	
System Wide Audit	Aurora Water	to a general description of the provider's testing program.	
Meter Age Meter Age Meter Age	Aurora Water Ute Water Arvada Colo Springs Utilities	Suggest removing the meter age information entirely as it may not be readily available for many entities. Just because a meter is older than 10 years does not make it inaccurate. Some manufacturers warrant meter accuracy for 15 years. A testing and/or replacement program is more important than a meter's age. Therefore, the questions about meter testing could be expanded to include additional details about meter testing programs. Age of meters by category - that is none of the State's business. Meter age by customer category seems excessive and unnecessary. Eliminate "Meter Age" question. It provides no utility and can be misleading is it presumed that a younger meter is a better meter. Loveland does not track the age of the meters, all meters are tested regularly and repaired or replaced if they do not meet accuracy standards. Meters are often rebuilt rather than replaced. Loveland is more concerned about the volume through the meter and the field conditions of the meters than their age Please make reporting the meter age optional	Removed meter age section. Meter testing and replacement program information is available from Water Conservation/Efficiency Plans updated every 7 years. Added questions: a) Do you adhere to the AWWA testing policy standard for large meters (2 inch or above) ? b) What is the planned age of replacement for small meters (1 inch or less)? (replace question 20).
Meter Age	GWI	Ask for "effective age" of meter.	
Water Loss Characterization	Aquacraft (DeOreo)	Add an estimate of meter accuracy for both master meter and customer meters.	Changed question to ask if entity uses M36 or what other method was used; keep categories in column 5 of AWWA M36 Table 2-1; entities should fill out data as available.
Meter Testing	GWI	Ask for % of meters tested in all categories, not just largest customers.	Meter testing and replacement program information is available from Water Conservation/Efficiency Plans updated every 7 years. Added questions: a) Do you adhere to the AWWA testing policy standard for large meters (2 inch or above) ? b) What is the planned age of replacement for small meters (1 inch or less)? (replace question 20). Changed question to ask if entity uses M36 or what other method was
		Expand the question to ask what the audit included (check box list of M36, e.g.	used; keep categories in column 5 of AWWA M36 Table 2-1; entities
System Wide Audit		meter testing, master meter testing, characterization of unbilled water, etc.)	should fill out data as available.
	Colo Springs	Replace "Do you have a meter testing program?" with "Do you use AWWA	
Characterization	Utilities	methodology for meter testing?"	Added question.
	Colo Springs	Replace "What % of total meters do you replace annually?" with "How often do	
Characterization	Utilities	you plan to replace meters 1" or smaller?"	Added question.
Water Loss Characterization	LAPLAWD	The water loss characterization does not appear to be requested in HB10-1051 and should be considered for deletion.	Removed meter age section. Meter testing and replacement program information provides perspective on the system losses and future water demand forecasts.



Section: Foundational Data III

Data Category	Author	Comments	Response
		Expand the question to ask the types of planning	
		integrated with the Water Conservation Plan (e.g.	
Integrated Water		Drought Plan, Water Supply Master Plan, Water	Removed question, information can be obtained from
Planning	GWI	Resources Plan, etc.)	Water Conservation/Efficiency Plans.



Targeted Tech Assistance & Incentives

Data category	Author	Comments	Response
Terminology	GWI	Suggestions for improving consistent terminology	
		Need to include "giveaways", "rebates" and "retrofits" for various	
		fixtures/appliances; expand to include home audit kits, toilet	Online reporting tool can expand categories and ask if it is
		flappers, water use meters, etc; add audits with retrofits for	rebate, retrofit, or giveaway. Added question for breakdown by
Incentives	GWI	projects tracking water use	giveaways vs rebates vs retrofits.
Tech Assistance			
& Ordinances	GWI	Add Car Washers/Vehicle Wash Facilities	Change made.
			Previously discussed at July 2011 Technical Advisory Group
		For all measures, it is just as important to capture the number of	meeting. Any available estimate of actual numbers prior to the
		incentives, retrofits, etc. prior to the reporting period as it is to	first reporting period may be provided in metadata but was
	Colo	capture the start and end date. It is by no means a perfect	identified as being too cumbersome for many entities, rather
	Springs	measure of penetration, but it may be the best we have for the	dates were determined to be a more readily available piece of
General	Utilities	vast majority of providers.	information.
	Colo	The tools should be designed to allow the provider to select from	
	Springs	a wide variety of targets (general, low income, large customers,	
General	Utilities	etc.), and customer classes.	Comment noted for online reporting tool enhancements.
		The tools should be flexible so that over time, fixtures and	
	Colo	program types that become passé are no longer including to not	
	Springs	present the illusion that providers are somehow doing less than	
General	Utilities	they used to.	Comment noted for online reporting tool enhancements.
			The Otate used a multiplic mention are seen to develop the
			The State used a public participation process to develop the
			Guidelines, with stakeholders from a broad geographic and
			demographic diversity to develop the Guidelines, including small,
		Depuite the low with of the new outing to all terminates it does not	medium and large sized utilities, NGOs and water conservation
		Despite the length of the reporting tool template, it does not	professionals. Reporting requirements were driven by the
		include any quantification or reporting of estimated annual water	legislation's focus on water use and conservation data to be used
		savings, either as an aggregate or by specific conservation	for statewide water supply planning. The water conservation
		programs. Instead, it only asks to indicate which water	related reporting was driven by input from the Technical Advisory
		conservation programs apply. Annual water use and the savings	Group and the recent SWSI update and SWSI Conservation
Cananal	Due eventiertet	attributed to water conservation seem to be the two most	Levels Analysis, which are indicative of how the State will use the
General	Broomfield	important pieces of information required for statewide planning.	data for future statewide planning purposes.



Section: Education

Data Category	Author	Comments	Response
One-Way Education	Aurora Water	Some clarification on the number of customers reached should be provided in the reporting tool: number of bills stuffed, mass mailers mailed, or door hangers hung may be more appropriate to collect than the number of customers reached. Also the number of times in a reporting period that each is used could be collected.	Changed from number of customers to number of pieces of literature, website visits, attendees, etc. during reporting period.
One-Way Education	Colo Springs Utilities	Number of occurrences (times bill stuffers were used) is a better measure than number of customers reached for most, but not all, one-way educational programs. Provide the option to report either or both.	



Section: Costs

Data Category	Author	Comments	Response
		Need to link the measures and program identified	
		with a question on funding (especially with regard to	Modified the reporting categories to the foundational,
		CIPs, as well as other measures and programs).	monitoring and verification, education, ordinances, and
		Could be take care of with creation of online	targeted technical assistance and incentives and refer
Costs	GWI	reporting tool.	to the SWSI Levels II documentation for definitions.



Section: General Comments

Data Category	Author	Comments	Response
		Form currently allows data reported in either Millions	The draft reporting tool template will be enhanced with
Potable Treated	Aquacraft	of Gallons or AF; standardize on a single unit of	the online reporting tool, including facilitating data entry
Water	(DeOreo)	measure (preferably MG).	and instructions; comments noted.
	Aquacraft	Summarize the key data in a 1 page annual	Comment noted for online reporting tool
Key Data Summary	(DeOreo)	summary sheet.	enhancements.
	Colo		
	Springs	Number and letter each section of the reporting	Comment noted for online reporting tool
General	Utilities	tools.	enhancements.
	Colo		
	Springs	Create an instructions guide corresponding to each	Comment noted for online reporting tool
General	Utilities	numbered and lettered section.	enhancements.
	Colo		
	Springs	Hyperlink all reporting categories to the appropriate	Comment noted for online reporting tool
General	Utilities	definition.	enhancements.
	Colo	Allow provider to define reporting units up front. Not	
	Springs	all providers have data in same units and conversion	Comment noted for online reporting tool
General	Utilities	should not be necessary.	enhancements.



Section: Appendix B Definitions

Data Category	Author	Comments	Response
		Recommended new definition: Volume of water returning from all diversions	
		and uses to source waters such that a downstream user can put it to	New definition added, with modifications from the
		beneficial use, or volume of water which could have been discharged as	Technical Advisory Group (using CFWE Citizen's
Return Flows	NWCCOG/QQ	above but is available for re-use by the reporting entity.	Guide definition).
Distributed Water	CRWCD	Editorial recommendations.	Change made.
Rate Structures	Greeley	Editorial recommendations.	Change made.
Education	Aquacraft (Mayer)	Define One-Way versus Two-Way Education	Added definitions.
	Red Oak	The comments on the respective effects of different rate structures on water conservation are insufficiently qualified. 1. For example, it is stated that declining rate blocks do not promote conservation. This is only true when compared with the conservation achieved with another rate design with lesser conservation impact, such as flat rates. Even in a declining block rate structure there is an incentive to conserve water as long as the customer is charged for additional use. 2. The statements in section D seem to advise utilities to adopt rate structures with increasing rate blocks but without any caution that these rates should maintain a strong cost nexus within each rate block. By doing so CWCB might expose itself to possible legal consequences. For reference see the latest water industry guidebook on these matters. Water Rates, Fees, and the Legal Environment AWWA second edition, 2010.	Updated definitions using AWWA M52 and Forecasting
	Consulting	My presentation to Water Wise last Friday provides further explanations on	Urban Water Demands. Removed text related to rate
Rate Structures	(Corssmit)	the legal aspects of water conservation rates.	structures encouraging conservation.
		"Monthly metered" should be omitted from the first sentence as not all water	
Customer Categori	Aurora Water	is metered monthly or metered at all.	Change made.
		Many providers will have exceptions to the customer categories as defined.	
		Emphasis should be placed on the fact that these Guidelines are not	
		suggesting people change customer categories, but that exceptions can be	
Customer Categori	Aurora Water	described in metadata.	Additional clarification provided.
			The goal is to capture residential outdoor-only in the
		Add to the multi-family category the following "(note that some providers may	
Customer Categori	Aurora Water	include multi-family irrigation under irrigation only accounts)".	exceptions and explain with metadata.



Section: Appendix B Definitions

Data Category	Author	Comments	Response
		The Irrigation Only category states that residential taps for outdoor-only use should be reported under the appropriate residential category. This could be	The goal is to capture residential outdoor-only in the
0	A		
Customer Categori Number of	Aurora vvater	explain that it is included in the Irrigation Only account.	exceptions and explain with metadata.
Service		Number of Inactive Service Connections - Please clarify how this calculation	Definition updated per October 31, 2011 Technical
Connections	Aurora Water	should be performed.	Advisory Group conference call.
General	Arvada	Lack of descriptions and definitions - Appendix B appears to end about half way through the list of requests. Will this be expanded?	Only terms anticipated to need clarity were included (see paragraph at the top of the definitions document for explanation).
Distributed Water	Colo Springs Utilities	Broaden this definition to encompass stand alone systems that are under the umbrella of a central entity, e.g. a system of independent wells under the same augmentation plan or a system with some instances of stand-alone infrastructure. If an entity is responsible for supplying the water physically and/or legally, then it should be reported regardless of the infrastructure used to get it there.	Definition of distributed water and "wholesale" updated per October 31, 2011 Technical Advisory Group conference call.
Customer	Colo Springs	Add a category for wholesale water customers and define what should be	
Categories Customer Categories	Utilities Colo Springs Utilities	included in this category. Clarify under definition for "Utility/Municipal Facility" whether this use should be reported as its own class if not all Utility/Municipal use is easily classified as such, i.e. if only a portion of municipal accounts can easily be separated from the CII class under which they were billed, are they all better left under CII?	The categories identified are applicable to the majority of entities; please use discretion to address exceptions and explain with metadata.
Customer Categories	Colo Springs Utilities	Clarify in this definition that providers can report data in whatever classifications they already have and ensure that the reporting tool allows for this.	Definitions state: "Based on existing water conservation plans and input from the advisory committees, the following customer categories are relevant for the majority of reporting entities. These definitions are not suggesting entities modify customer categories, rather any; exceptions shall be described as metadata by the reporting entities under the reporting tool."
Normalizing Data	Colo Springs Utilities	Population served - Add military as a transient population category.	Change made.



Section: Appendix B Definitions

Data Category	Author	Comments	Response
Normalizing Data	Colo Springs Utilities Colo Springs Utilities	Elaborate on or clarify the definition of an active service connection (is it active meters, service agreements (may have multiple meters), premises (may have multiple service agreements), or accounts, may have multiples of each of the above. Clarify inactive service connections as in 4)b) (meters, SA's, premises, or accounts)	Discussed on October 31, 2011 Technical Advisory Group conference call, definition of "inactive" accounts enhanced.
Annual Audit Report	Colo Springs Utilities	All definitions a), b), c), and d) should be defined verbatim with the 2009 AWWA M36 Manual to eliminate any confusion.	Edits were made for better consistency with AWWA M36 (verbatim definitions are not available for all terms).
Annual Audit Report	Colo Springs Utilities	All water audit categories listed in M36 should be provided and defined according to M36 so those following M36 methodology can simply report the findings as is.	Technical Advisory Group recommended at October 26, 2011 meeting to include categories in M36 Figure 2- 1 Column 5, but not further details in Column 6.
Rate Structures	Colo Springs Utilities	Change name to "Flat Charge" or "Flat Fee". Calling it a rate confuses it with "Uniform Rate".	Change made.
General	Longmont	The definition of "Normalizing Data" is not really a definition, but a list of types of data to be evaluated. What is the proposed "common unit basis" for presenting the data in a normalized way, or is this to be determined on a case-by-case basis? This definition needs to be revised.	Clarifying language added.
		Several of the definitions contain statements about the expected results of implementing the term being defined. For example, the definition for Conservation Oriented Tap Fee states that"this structure incentivizes customers to join the system at a better level of water efficiency for a lower connection charge with the commitment of installing water efficient fixtures and landscaping during the construction process." There is also language in almost all of the Rate Structure definitions about whether or not the structures encourage conservation. These are policy or position statements	Updated definitions using AWWA M52 and Forecasting
General	Longmont	that may or may not be true in any given application of a rate structure and do not belong in the definitions. We suggest that they be deleted.	Urban Water Demands. Removed text related to rate structures encouraging conservation.



Data Category	Author	Comments	Response
General	CRWCD	Editorial recommendations.	
	Aquacraft		
General	(Mayer)	Editorial recommendations.	
Incentives,			
Technical			
Assistance, and			
Technological	Aquacraft		
Efficiencies	(Mayer)	Indicated this section is not clear	Comment addressed.
Page 7, Aii RE Integrated Systems	Platte Canyon	A covered entity responsible for administering a water conservation master plan approved by the Colorado Water Conservation Board's Office of Water Conservation and Drought Planning in compliance with Section 37-60-126, <i>CRS</i> (Integrated System Water Conservation Plan) shall be responsible for reporting information for all covered entity members of the Integrated System as specified under Reporting Process, Paragraph A. iii of these Guidelines. No covered entity member of an Integrated System Water Conservation master plan shall be required to individually report information as specified in these Guidelines unless such covered entity chooses in writing to report said information separately from the covered entity responsible for administering the water conservation master plan. The information gained from our recent study on water use and single family demand reductions is proving critical in accurately projecting the City's future	Technical Advisory Group agreed to language provided by Denver Water on October 31, 2011 conference call.
		water use and conservation options. The CWCB might find value in providing assistance so that providers can learn more about their customers and better	See page 2 of the Guidelines: "Additionally, data reporting will
		address long term needs. The City understands the value of data and potential	help the CWCB in developing more targeted technical outreach
		uses, but stresses that the level of data needs differs from local to statewide	efforts aimed at providing better local water conservation planning
General	Westminster	planning efforts.	tools to covered entities throughout Colorado."
	Colo Springs		
Page 4, 3)a)	Utilities	Change "Number of each type" to "Percentage of each type"	
	Colo Springs		
Page 4-5, 3)d)	Utilities	Provide an option to attach one's current tariff for each class.	Added an option to the reporting tool template and definitions.
Page 5, 3)f)i)	Colo Springs Utilities	Eliminate meter age. This is too difficult to get for just about everyone and has limited, if any, value.	



Data Category	Author	Comments	Response
		Allow providers to describe leak detection and pipe replacement protocols	
	Colo Springs	rather than list % of system inspected or % of pipes replaced as these results	
Page 5, 3)f)v,vi)	Utilities	may be misleading.	
		Mixed use is becoming a more common type of development and will probably	Ideally the domestic part of mixed use would be reported under
		be even more prevalent in the future. We have found the water use patterns	multi-family (with normalizing data) and the commercial portion
		to be different from single or multi-family development. Mixed use is not in the	would be reported separately under CII; if disaggregated data is
		customer category definitions and it should be included in the reporting	not available, please report under "other" category and explain
General	Longmont	requirements.	with metadata.
		Water usage patterns in some service areas are significantly affected by the	
		mix of year-round and transient population. Significant daytime worker influx	One of the purposes of the data collection is to learn about effects
		(or exit) can also have major impacts on water demand patterns. Without this	of such issues, and how to improve interpretation of water use
		information, water use patterns can be difficult to compare among water	and where better information may be needed. Recognizing the
		providers. As such, unless the CWCB can fund acquisition of the applicable	challenge with estimating transient population, the Guidelines
		population data we suggest that this information not be collected or used for	recommend an estimate if available, along with metadata
General	Longmont	metrics purposes.	describing the source of information.
			Through the forthcoming BNDSS, the State will strive to reduce
		Some of the information is already reported to the State as required in Water	redundancy in data reporting requirements under various
General	Loveland	Court Decrees.	initiatives.
Comments Regar	rding Intent of t	he Data and How Data Can Be Used:	
		Add "Therefore, this data alone will not provide useful comparisons between	
		utilities, but will greatly improve the data available for statewide water supply	
Page 2, end 1st P	Aurora Water	planning."	
		Add " should not be used to compare utilities or represent planning prepared	
Page 2, bold note	Aurora Water	by local entities"	
Page 2, 2nd full P			
& last sentence	Colo Springs	Should both be amended to state that "The statewide and basinwide planning	
under "NOTE:"	Utilities	efforts shall not and will not replace"	
	Unines	A statement needs to be added which specifically states that these data are to	4
		be used for statewide water supply planning purposes as put forth in this	
Dogo 2 1 at or 2nd	Colo Springo		
Page 2, 1st or 2nd full P	Utilities	document and are not intended to be used to compare water providers in any	
	Ounties	way.	l I



Data Category	Author	Comments	Response
Page 2, 1st sentence under	Colo Springs	"NOTE:" needs to be amended to state that these data will only be made directly available to the public in an aggregated form in accordance with the	
"NOTE:"	Utilities	SWSI planning process.	Technical Advisory Group agreed upon updated language
General	Greeley	" it is stated right up front that the State won't require data to be collected or savings to be calculated in a standardized manner data collected will not be statistically sound it is important that the State and other organization(s) do not use the data to compare water providers to one another."	regarding the Goals and Purpose section of the Guidelines on October 31, 2011 conference call.
		Thornton is concerned about the ultimate use, dissemination and integrity of this data. Specifically, direct comparisons of data between water providers can	
		easily be misinterpreted by the public, medial regulatory agencies and courts.	
		Thornton echoes the comments of the Colorado Water Wise Council in urging	
		the state to use caution in how it saves and disseminates data collected	
General	Thornton	through HB-1051. It is critical that the relevancy and context of the data be preserved to prevent unintended uses or misuse of the data.	
General	Thomlon	Although the data collection will be valuable to track an individual entity's	
		progress over time, Fort Collins Utilities is concerned about the data being	
		compared between utilities. A direct comparison cannot fairly be made and is	
		not a reliable measure of efficiency We urge the State to be cautious in how	
General	Ft. Collins	they interpret and report each entity's data.	



Data Category	Author	Comments	Response		
	Broader Policy-Related Comments:				
		When will the State or CWCB fund a position at each Utility to collect and			
General	Ute Water	report all the stupid data that these regulations require?			
General	Ute Water	It is clear that these reporting requirements were written by Staff that has never run a water district. CWCB should start over and try for meaningful data and not a wish list from people who know nothing about running a water utility.	planning, input from the advisory groups, and the recent SWSI		
General	Westminster	the City is concerned with the level of data requested and the intended scope of its use The resulting guidelines appear to be more far-reaching than what the original language described. Neither Westminster, nor do we believe the legislature, anticipated the full scope of data that would be requested. The level of detail required is very specific and in many ways already included in conservation plans currently required by the State We believe that a simpler approach might be to report a higher level of information.			
		Additionally, the City is concerned about the final use of the data provided to the CWCB, especially as it might relate to mandates or the removal of decision making ability at a local level. While those who have been involved in this discussion have an understanding of the limits and definition of the reported data, others may use this information to enforce or create regulations or laws without fully understanding the implications and consequences. The data must always be seen in context with the provider's long term goals, water portfolio, and the needs of the community. Providing detailed data without considering the overall context can invite comparisons without the benefit of the complete picture. To meet the needs of all parties, Westminster recommends an aggregation of the data into basin levels by a third party prior to reporting to CWCB, thus providing the data required for statewide water supply planning			
General	Westminster	while limiting the unanticipated use. Colorado Springs Utilities believes, given that these data are to be used for statewide planning purposes and will thus be aggregated to county and basin levels, that too many data points are being requested many of which may be	water conservation planning tools to covered entities throughout Colorado. The Water Efficiency Grant Program fund, created in 2004, provides funds to assist entities in implementing water conservation planning activities.		
Page 3, general comment	Colo Springs Utilities	rendered meaningless or worse when aggregated at these levels. The effort to collect these data will be onerous for water providers and we suggest eliminating data which do not clearly represent value at county and basin levels. We will note data which could be eliminated under comments for Appendix C.	Most participating covered entities indicated that the majority of the data is readily available and the reporting requirements are not overly onerous. The State is developing a reporting tool to facilitate the data reporting process.		
		It would be helpful to understand the purpose/usefulness of the data that is being collected. Perhaps something about each section defining its relevance			
General	Arvada	to furthering water conservation.			



Data Category	Author	Comments	Response
		What is the intent of collecting the data? How will it be used? Based on	
		supporting documents that accompanied HB-1051, it appears that the data are	
		intended to direct CWCB's conservation activities and programs. Is this the	
		case? If so, what outcomes are expected that would not be possible without a	
General	Longmont	mandated reporting requirement?	
		The CWCB's implementation of this Bill appears to contradict the Governor's	
		executive order D 2011-005 signed on January 20, 2011, that provides for	
		restrictions to and waivers of unfunded state mandates to local governments.	
		A copy of that order is attached. If the CWCB moves forward with	
		implementing the provisions of HB 10-1051, it needs to provide a rationale for	
		why D 2011-005 does not apply or establish a funding mechanism to	
General	Longmont	reimburse local water providers for the cost of complying with HB 10-1051.	
Contertai	Longmont	The reporting requirement in HB-1051 is for an annual report that summarizes	
		annual information. Why does the proposed reporting requirement ask for	
		monthly data, such as number of taps per month? What State level policy	
		decisions or water administration are contemplated that need this level of	See previous response.
		detail? We feel that a summary of data for the year would be adequate for	
General	Longmont	CWCB's purpose.	
		Not all entities have funding available or dedicated staff for water conservation	
		programs, so some level of flexibility needs to be built into the reporting	
		requirements to recognize those limitations. We also feel that a CWCB	
		sponsored funding program needs to be established to reimburse the direct	
General	Longmont	costs for preparation of these reports, especially for smaller communities.	
Conorda	Longmont		
		Section 4.5(a)(II) of the Act directs the CWCB to establish Guidelines that	
		include a clear description of the categories of customers, uses, and	
		measurements. However, some of the proposed reporting requirements are	
		too detailed for statewide planning purposes. For example, the requirement to	
		provide the number of active accounts and housing units in a consistent format	
		is appropriate; however, reporting this information for each month of the year is	
		unnecessary. An annual summary should be adequate, even for communities	
		that are experiencing relatively high growth rates, since the data will not	
General	Broomfield	significantly change from month to month.	



Data Category	Author	Comments	Response
		Section 4.5(a) of the Act states that covered entities shall report water use and	
		conservation data, to be used for statewide water planning. However, most of	
		the information listed in the draft Guidelines and reporting tool template (which	
		is included as Appendix C to the draft Guidelines) focuses on policies and the	
		implementation of those policies, rather than water use and conservation data.	
		Of the 14 pages that make up the reporting template, only 4 to 5 pages cover	
		water use data. The remainder is related to utility billing structure and rates,	
		license/connection fees, point of sale controls, water loss	
General	Broomfield	characterization/water audits, ordinances, staffing levels, and operating	
General	BIOOIIIIIeiu	expenses.	
		Due to the repeated use of the word "shall," the draft document reads more	
		like a regulation than a guideline. The reporting sheets (Appendix C) need to	
		clearly differentiate between data that is required versus the information that is	
		desired. Broomfield is supportive of providing data and information relating to	See previous response.
		the categories of customers, uses, and measurements as stated in Section	
		4.5(a)(II) of the Act; however, providing operating data or policy-related	
General	Broomfield	information was not cited as a requirement in the enacting legislation.	
		Recommend supporting limiting the data categories to the following items:	
		General entity information; Types of distribution systems (i.e. raw, potable,	
		reuse, etc.); Monthly water use by customer class; Total, year-end, connections for each customer class; How customer uses are	
		measured/metered; and Annual savings from water conservation. All other	
		remaining Data Categories included in the Draft Guidelines and in Appendix C	
General	Broomfield	should be optional or voluntary.	
		These reporting requirements place an unfunded burden on Thornton and	
		other water providers. Thornton already collects and analyzes conservation	
		data to evaluate its own programs; however, the Guidelines place additional	
		data collocation and reporting demands on Thornton's conservation program.	
	- , ,	The resources that will be used to meet these reporting requirements will be	
General	Thornton	diverted from Thornton's existing and planned conservation initiatives.	



Data Category	Author	Comments	Response
		It appears that that the reporting requirements will place a significant burden	
		on water providers. We respectfully request that the required reporting formats	
		be kept as direct, simple and to the point as possible, to minimize the efforts	
General	Loveland	required.	
		The primary motivation for HB10-1051 was to monitor water use per capita in	
		the state to assess whether and to what amount water conservation may	
		reduce water demand. With that in mind, there needs to be an explanation of	
		how the data will be interpreted and used to assess statewide water use. Who	
		is going to interpret the data that is provided? What variables are they going	
		to consider when interpreting the data? How can you compare a system that	
		uses a large portion of its average daily demand for outdoor use to a system	
		that uses very little of its average daily demand for outdoor use? How do you	
		compare a town with no or little livestock use to a rural district that may have a	
		significant portion of its use for livestock watering? Will water users have an	
General	LAPLAWD	opportunity to "ground truth" the data?	
		Much of the requested information seems to be geared towards developing a	
		case for regulations that will dictate the means and methods of conservation.	See previous response.
		This can be very dangerous without taking into account the many differences	
General	LAPLAWD	that exist between systems.	
		In summary, the guidelines are extensive and burdensome, especially to	
		smaller entities and it is not clear whether the proposed guidelines will be	
		effective in meeting the goals of HB10-1051. We suggest they be significantly	
General	LAPLAWD	condensed and streamlined.	