



THE CITY OF
BENICIA
CALIFORNIA
Public Works Department

May 16, 2006

California Department of Water Resources
Office of Water Use Efficiency & Transfers
P.O. Box 942836
Sacramento, CA 94236-0001

Attn: David Todd, Technical Assistance and Outreach Branch

Copy: Kim Rosmaier, DWR Central District Office (3251 S Street, Sacramento, CA 95816)

Subject: City of Benicia 2005 Urban Water Management Plan

Dear Mr. Todd:

The attached clarifications are provided regarding the City's 2005 Urban Water Management Plan (UWMP) to address the Department's comments from the "Review for Completeness" as noted in your letter dated February 27, 2006. We are requesting confirmation that the Department considers the UWMP complete with these clarifications.

As outlined on page 1-5 of the UWMP, the Benicia City Council adopted the document on December 6, 2005. The attached clarifications provide some additional discussion of information already in the UWMP, but do not change any of the UWMP findings or recommendations. In our view, these minor clarifications do not constitute an amendment or change to the UWMP that would require additional Council action.

Please advise regarding status of completeness. If you have any questions or need additional information, please do not hesitate to contact me at ctomasik@ci.benicia.ca.us or 707-746-4227. Thank you.

Sincerely,

Chris Tomasik
Assistant Director of Public Works/Utilities Manager

cc: Dan Schiada, Public Works Director, City of Benicia
Dave Wenslawski, Water Quality Technician, City of Benicia
Lisa House, CDM

City of Benicia Clarifications 2005 Urban Water Management Plan

Below are clarifications for the City of Benicia (City) 2005 Urban Water Management Plan (2005 Plan) dated December 2005. This information is being provided to the Department of Water Resources as part of the "Review for Completeness" of the 2005 Plan.

Coordination with Wholesale Suppliers

Section 1 of the 2005 Plan discusses coordination with other agencies during preparation of the 2005 Plan. Several meetings were held with the City's wholesale suppliers, the Solano County Water Agency (SCWA) and the City of Vallejo, to discuss water supply estimates and reliability. SCWA provided the City with a draft copy of the SCWA Urban Water Management Plan update in August 2005, and with the final plan adopted in October 2005. The City of Vallejo also provided Benicia with information regarding its supply estimates as part of its Urban Water Management Plan preparation.

The City used the information from the wholesale suppliers in the preparation of its 2005 Plan. The City also provided the wholesaler suppliers with information on the City's demand estimates by providing a draft copy of the City's Plan via e-mail and the final plan after adoption.

Institutional/Governmental Water Use

Section 3 of the 2005 Plan provides historic and projected water use for various customer categories, including a combined commercial and institutional category. Institutional/governmental water uses comprise about 14% of the total use for the combined commercial and institutional category. Institutional/governmental accounts comprise about 7% of the total number of accounts in the combined commercial and institutional category.

Water Shortage Contingency Ordinance

Section 9 of the City's 2005 Plan contains a detailed discussion of the City's current Water Shortage Contingency Ordinance, the Emergency Water Conservation Plan, City Code Title 13, Chapter 13.35, which is available on the City's website.

Attachment 1 is a copy of the current ordinance. Several recommendations are included in Section 9 for updating the current ordinance that will be evaluated and implemented during the 5-year plan period.

Plan to Optimize Use of Recycled Water

Section 5 discusses recycled water use within the City. Section 5.2 describes the City's partnering effort with the Valero Refinery to provide recycled water for industrial uses. This partnership is the City's plan to optimize use of recycled water, since most of the wastewater generated in the City will be recycled for use by Valero. The use of recycled water was made a condition of approval by the City for this very large water customer. Due to the expectation that the Valero Refinery will use all the recycled water produced by the City, financial incentives are not necessary to encourage any other users.

Supply and Demand Comparison - Multiple Dry Year

Section 7, Table 7-4 of the City's 2005 Plan provides supply and demand comparisons for a multiple dry year scenario by 5-year interval at the following intervals: 2005, 2010, 2015, 2020, 2025 and 2030. Attachment 2 provides the supply and demand comparisons by individual year for each of the 5-year intervals.

Review of DMM's for Completeness

As discussed in Section 8.1 of the 2005 Plan, the City has fully implemented all cost-effective DMM's. Appendix I of the City's 2005 Plan provides 2004 BMP Reports filed with the CUWCC. Appendix J of the City's 2005 Plan contains the cost effectiveness (benefit-cost) analysis for the BMPs that are not cost effective and not implemented.

Attachment 3 provides a CUWCC summary report for 2003 and 2004 that lists all the DMMs and whether the BMP report was submitted or an exemption request filed; and the 2003 and 2004 BMP reports for the implemented BMPs.

Review of Implementation of 2000 Plan

The City has implemented all but one of the recommended actions from their 2001 Urban Water Management Plan, including procuring additional drought supplies and initiating a major recycled water project. The City is fully implementing all cost-effective demand management measures.

The 2001 Plan recommended some changes to the City's Emergency Water Conservation Plan (Water Shortage Contingency Plan) that are not yet implemented. As discussed in Section 9 of the 2005 Plan, recommended modifications have been identified to update the current ordinance prior to preparation of the next plan update.

Attachment 1
Emergency Water Conservation Ordinance

Chapter 13.35

EMERGENCY WATER CONSERVATION PLAN

Sections:

- 13.35.010 Scope.
- 13.35.020 Declaration of policy.
- 13.35.030 Definitions.
- 13.35.040 Authorization.
- 13.35.050 Application.
- 13.35.060 Water conservation stages.
- 13.35.070 Mandatory conservation phase implementation.
- 13.35.080 Duration of conservation stages.
- 13.35.090 Drought penalty.
- 13.35.100 Exceptions and application procedures for exceptions.
- 13.35.110 Violation--Enforcement.
- 13.35.120 Violation--Penalties.
- 13.35.130 Violation--Additional remedy.

13.35.010 Scope. There is established a city emergency water conservation plan. (Ord. 90-19 N.S. §1 (part), 1990).

13.35.020 Declaration of policy. It is declared that, because of the conditions prevailing in the city, the general welfare requires that the water resources available to the city be put to the maximum beneficial use to the extent to which they are capable, and that the waste or unreasonable use, or unreasonable method of use of water be prevented, and the conservation of such water is to be extended with a view to the reasonable and beneficial use thereof in the interests of the people of the city and for the public welfare. (Ord. 90-19 N.S. §1 (part), 1990).

13.35.030 Definitions. A. The "city" means the city of Benicia acting by and through the city of Benicia public works department as operator of the city of Benicia water system.

B. "Director" is the director of public works of the city of Benicia.

C. "Person" means any person, firm, partnership, association, corporation, company, organization, or governmental entity.

D. "Customer" means any person, whether within or without the geographic boundaries of the city of Benicia, who uses water supplied by the city.

E. "GPD" means gallons per day.

F. "HCF" means one hundred cubic feet. (Ord. 90-19 N.S. §1 (part), 1990).

13.35.040 Authorization. The city manager or his designate, upon the recommendation of the director is authorized and directed to implement the applicable provisions of this chapter upon their determination that such implementation is necessary to protect the public welfare and safety. (Ord. 90-19 N.S. §1 (part), 1990).

13.35.050 Application. The provisions of this chapter shall apply to all persons, customers, and property served by the city. (Ord. 90-19 N.S. §1 (part), 1990).

13.35.060 Water conservation stages. No customer of the city shall knowingly make, cause, use, or permit the use of water from the city for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this chapter, or in an amount in excess of that use permitted by the conservation stage in effect pursuant to action taken by the city manager, or his designate in accordance with the provisions of this chapter.

A. Stage 1. Voluntary Conservation.

1. Customers of the city are requested to voluntarily limit the amount of water used to that amount absolutely necessary for health, business, and irrigation.

2. In addition to the above voluntary water use reductions of subsection A1 of this Section 13.35.060, and in compliance with Section 13.35.070, the following restrictions shall apply to all persons:

a. The following uses of water are defined as "waste of water" and are absolutely prohibited:

i. Allowing water to run off to a gutter, ditch, or drain;

ii. Failing to repair a controllable leak;

iii. Washing sidewalks, driveways, parking areas, tennis courts, patios, or other paved areas, unless the concrete foundation is in the process of curing during construction, and except to alleviate immediate fire hazards.

B. Stage 2. Mandatory Compliance--Water Alert.

1. No residential customer shall make, cause, use, or commence the use of water received from the city for any purpose in an amount in excess of three hundred fifty gpd (two thousand eight hundred cubic feet per sixty-day billing cycle) per residence. Water used in excess of this amount shall be subject to a drought penalty as set forth in Section 13.35.090 hereof. The customer of record may request an increase in the basic allotment as set forth in Section 13.35.100.

2. No industrial or commercial customer shall make, cause, use, or permit the use of water received for any purpose in an amount in excess of ninety-five percent of the amount used during the base period defined as the amount of water used on a customer's premises during the corresponding

bimonthly billing period in the base year of 1989. In addition to the above allotment, for meters that strictly serve landscaping, the allotment shall be seventy-five percent of the amount used during the base period defined above.

New services or services without 1989 history shall be allotted on comparable customer usage. Water used in excess of this amount shall be subject to a drought penalty as set forth in Section 13.35.090. The customer of record may request an increase in the basic allotment as set forth in Section 13.35.100.

3. In addition to the above mandatory water use reductions of subdivisions 1 and 2 of this subsection B and in compliance with Section 13.35.070, the following restrictions shall apply to all persons:

a. Use of water from hydrants shall be limited to fire fighting and other activities necessary to maintain the health, safety, and welfare of the citizens of Benicia.

b. All "waste of water" elements as defined in Stage 1 shall remain in effect in Stage 2.

C. Stage 3. Mandatory Compliance--Water Warning.

1. No residential customer shall make, cause, use, or commence the use of water received from the city for any purpose in an amount in excess of three hundred twenty gpd (two thousand six hundred cubic feet per billing cycle) per residence. Water used in excess of this amount shall be subject to a drought penalty as set forth in Section 13.35.090. The customer of record may request an increase in the basic allotment as set forth in Section 13.35.100.

2. No industrial or commercial customer shall make, cause, use, or permit the use of water received for any purpose in an amount in excess of ninety percent of the amount used during the base period defined as the amount of water used on a customer's premises during the corresponding bi-monthly billing period in the base year of 1989. In addition to the above allotment, for meters that strictly serve landscaping, the allotment shall be seventy-five percent of the amount used during the base period defined above.

New services or services without 1989 history shall be allotted on comparable customer usage. Water used in excess of this amount shall be subject to a drought penalty as set forth in Section 13.35.090. The customer of record may request an increase in the basic allotment as set forth in Section 13.35.100.

3. In addition to the mandatory water use reductions of subdivisions 1 and 2 of this subsection C, and in compliance with Section 13.35.070, all elements of Stage 2 shall remain in effect in Stage 3.

D. Stage 4. Mandatory Compliance--Water Emergency.

1. No residential customer shall make, cause, or commence the use of water received from the city for any

purpose in an amount in excess of two hundred ninety-five gpd (two thousand four hundred cubic feet per billing cycle) per residence. Water used in excess of this amount shall be subject to a drought penalty as set forth in Section 13.35.090. The customer of record may request an increase in the basic allotment as set forth in Section 13.35.100.

2. No industrial or commercial customer shall make, cause, use, or permit the use of water received for any purpose in an amount in excess of eighty-five percent of the amount used during the base period defined as the amount of water used on a customer's premises during the corresponding bi-monthly billing period in the base year of 1989. In addition to the above allotment, for meters that strictly serve landscaping, the allotment shall be seventy-five percent of the amount used during the base period defined above.

New services or services without 1989 history shall be allotted on comparable customer usage. Water used in excess of this amount shall be subject to a drought penalty as set forth in Section 13.35.090. The customer of record may request an increase in the basic allotment as set forth in Section 13.35.100.

3. In addition to the mandatory water use reductions of subdivisions 1 and 2 of this subsection D, and in compliance with Section 13.35.070, all elements of Stage 3 shall remain in effect in Stage 4.

E. Stage 5. Mandatory Compliance--Water Crisis.

1. No residential customer shall make, cause, use, or commence the use of water received from the city for any purpose in an amount in excess of two hundred thirty gpd (one thousand nine hundred cubic feet per billing cycle) per residence. Water used in excess of this amount shall be subject to a drought penalty as set forth in Section 13.35.090. The customer of record may request an increase in the basic allotment as set forth in Section 13.35.100.

2. No industrial or commercial customer shall make, cause, use, or permit the use of water received for any purpose in an amount in excess of seventy-one percent of the amount used during the base period defined as the amount of water used on a customer's premises during the corresponding bi-monthly billing period in the base year of 1989. In addition to the above allotment, for meters that strictly serve landscaping, the allotment shall be fifty percent of the amount used during the base period defined above.

New services or services without 1989 history shall be allotted on comparable customer usage. Water used in excess of this amount shall be subject to a drought penalty as set forth in Section 13.35.090. The customer of record may request an increase in the basic allotment as set forth in Section 13.35.100.

3. In addition to the mandatory water use reductions of subdivisions 1 and 2 of this subsection E, and

in compliance with Section 13.35.070, all elements of Stage 4 shall remain in effect in Stage 5 except that:

a. Section 13.35.100(A) does not apply in this stage. The customer of record may still apply for exceptions as outlined in Section 13.35.100, but the reason for applying for an exception cannot be based on economic hardship. (Ord. 91-5 N.S. §1, 3 (part), 1991; Ord. 91-2 N.S. §1 (part), 2, 1991; Ord. 90-19 N.S. §1 (part), 1990).

13.35.070 Mandatory conservation phase implementation.

A. The department of public works shall monitor the projected supply and demand for water by its customers and shall recommend to the city manager the extent of the conservation required in order for the department to prudently plan for and supply water to its customers. Thereafter, the city manager may order that the appropriate phase of water conservation be implemented in accordance with the applicable provisions of this section. Said order shall be made by public announcement and shall be published a minimum of one time in a daily newspaper of general circulation and shall continue to be published on a weekly basis until such time as all restrictions are removed. Said order shall become effective immediately upon the first publication.

B. Conservation Stages. The various stages of water conservation shall be implemented upon authorization by the city manager. (Ord. 91-5 N.S. §2, 1991; Ord 91-2 N.S. §3, 1991, Ord. 90-19 N.S. §1 (part), 1990).

13.35.080 Duration of conservation stages. Stage 1 shall be effective upon the effective date of the ordinance codified in this chapter, and the restrictive provisions of Stage 1 as set forth above shall apply to all water consumption on and after said date. Stage 1 will be rescinded at such time that conditions as set forth in Section 13.35.070 indicate a more restrictive stage is necessary. (Ord. 90-19 N.S. §1 (part), 1990).

13.35.090 Drought penalty. A. Customers will receive prior individual notification of the standard allotment basis, applicable rates, and the opportunity to request exceptions to the standard allotment basis.

B. Water use beyond the maximum allowed for each water conservation stage shall be subject to a drought penalty pursuant to the schedule set forth below. The customer of record may request an increase in this basic allotment as set forth in Section 13.35.100. Application forms and instructions will be provided to customers and will also be available at the city water billing office.

C. In addition to the general water service rates, each customer shall pay, during each billing period, a drought

penalty for water delivered in excess of the water allotment. The drought penalty is as follows:

For water delivered up to ten percent in excess of allotment there shall be a drought penalty equal to 2.0 times the applicable volume charge, in addition to the applicable service charge and volume charge;

For water delivered from 10.01 percent to twenty percent in excess of allotment there shall be a drought penalty of 3.0 times the applicable volume charge levied on this excess only, in addition to the drought penalty on the first ten percent and the applicable service charge and volume charge; and

For water delivered over twenty percent in excess of allotment, there shall be a drought penalty of 4.0 times the applicable volume charge levied only on this excess over twenty percent, in addition to the drought penalties on the first twenty percent and the applicable service charge and volume charge.

D. In addition to the drought penalty, if drought usage exceeds the allowed allotment, a warning will be issued and enforcement actions may be taken as described in Section 13.35.110. (Ord. 91-5 N.S. §4, 1991; Ord. 91-2 N.S. §1 (part), 1991; Ord. 90-19 N.S. §1 (part), 1990).

13.35.095 Drought surcharge. A. A drought surcharge may be imposed by the city council, upon the recommendation of the finance director, to compensate for a loss of water revenue or to pay an additional cost for the purchase of water by the city.

B. The drought surcharge is a monthly charge and is as follows:

Residential (Non-Seniors)	\$ 4.25
Residential (Seniors)	0
Commercial/Industrial (Meter Size):	
3/4 inch	\$ 4.25
1	7.55
1 1/2	17.00
2	30.20
Commercial/Industrial (Meter Size):	
3 inch	\$ 67.95
4	120.80
6	271.75

C. The drought surcharge will be in effect beginning May 1, 1991 and will continue until May 31, 1993 or upon report of the finance director stating that the water emergency costs have been fully recovered by the surcharge, whichever occurs first. By resolution, city council may extend imposing the surcharge beyond May 31, 1993, upon

recommendation of the finance director. (Ord. 91-5 N.S. §5, 1991; Ord. 91-2 N.S. §5, 1991; Ord. 90-19 N.S. §1 (part), 1990).

13.35.100 Exceptions and application procedures for exceptions. A. Any customer of record may apply to the director to increase the amount of water which may be used without exceeding the basic allotment based on any one or more of the following reasons:

1. Medical requirements;
2. More than four residents in a single-family residential household. The additional amount allotted shall be fifty gpd per person;
3. Incorrect customer classification based on predominant use;
4. When failure to do so would cause severe economic hardship to the applicant, including, but not limited to, threat of imminent insolvency;
5. When failure to do so would cause an emergency condition affecting the health, sanitation, fire protection, or safety of the application or the public.

B. Written applications for such exceptions may be granted by the director based upon clear and convincing evidence that any one or more of the foregoing conditions has been satisfied and is in the public interest to grant such application.

C. The quantity of water allowed in addition to the basic allotment shall be determined by the director, and shall not exceed that quantity necessary to alleviate the condition which justified granting of the application for an exception. (Ord. 91-2 §4, 1991; Ord. 90-19 N.S. §1 (part), 1990).

13.35.110 Violation--Enforcement. The violation of each provision of this chapter, and each separate violation thereof, shall be deemed a separate offense, and shall be enforced accordingly.

A. Except for the imposition of the drought penalty, as a condition of enforcement of any violation of this chapter, any customer that violates any provision of this chapter shall be given a written warning or notice to refrain from further violations.

A written warning or notice shall be given to the violator either by mailing said warning or notice to the address given to the city by the customer of record, by personal service on the violator, or by leaving said warning or notice in a conspicuous place on the served property wherein the violation occurred.

B. If after issuance of the written warning or warnings, the director determines that the customer has continued or is continuing to violate the provisions of this chapter, the director may authorize and implement installation

of a flow restricting device on the service line or reduce the amount of water available to the customer. Any costs incurred by the city to authorize, implement, and remove the installation of a flow restricting device on the service line or reduce the amount of water available to the customer shall be borne by the customer. The flow restricting device shall be removed and the prior water supply amount resumed no sooner than sixty days after the date of the installation of the flow restricting device or a reduction in water available, provided that no further violations have occurred within that time.

C. If after implementation of a flow restricting device or reduction of water available to a customer, the customer continues to violate the provisions of the chapter, the director may authorize disconnection of water service to the customer for a period of three days. All costs or expenses incurred by the city for enforcement of this section shall be borne by the customer. (Ord. 91-5 N.S. §6, 1991: Ord. 90-19 N.S. §1 (part), 1990).

13.35.120 Violation--Penalties. In addition to all other remedies provided herein, any person who violates any provision of this chapter after having received a written notice to refrain as provided in Section 13.35.110, is guilty of an infraction. The violation of each provision of this chapter and each separate violation thereof shall be deemed a separate offense and shall be punished accordingly. Each offense shall be punishable by (1) a fine not exceeding one hundred dollars for the first violation; (2) a fine not exceeding two hundred dollars for a second violation of this chapter within one year; and a fine not exceeding five hundred dollars for each additional violation of this chapter within one year. (Ord. 90-19 N.S. §1 (part), 1990).

13.35.130 Violation--Additional remedy. As an additional remedy, the violation of any provision of this chapter by any person who has received more than one written warning pursuant to Section 13.35.110 to refrain from the same or any other violation under this chapter in one calendar year shall be deemed and is declared to be, a public nuisance and may be subject to abatement by a restraining order or injunction issued by a court of competent jurisdiction. (Ord. 90-19 N.S. §1 (part), 1990).

Attachment 2
Demand and Supply Comparison
Multiple Dry Year Scenario by Individual Years

Attachment 3 Supply and Demand Comparison: Multiple Dry Year Scenario

Table 1
Projected supply during multiple dry year period ending in 2010 - AF Year

	21,670	17,354	17,354	17,354	17,354
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Table 2
Projected demand multiple dry year period ending in 2010 - AFY

	12,006	12,114	12,223	12,331	12,440
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Table 3
Projected Supply and Demand Comparison during multiple dry year period ending in 2010- AF Year

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Table 4
Projected supply during multiple dry year period ending in 2015 - AF Year

	25,357	19,550	19,550	19,550	19,550
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Table 5
Projected demand multiple dry year period ending in 2015 - AFY

	12,549	12,658	12,766	12,875	12,984
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Table 6
Projected Supply and Demand Comparison during multiple dry year period ending in 2015- AF Year

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Supply and Demand Comparison: Multiple Dry Year Scenario

Table 7
Projected supply during multiple dry year period ending in 2020 - AF Year

	25,357	19,550	19,550	19,550	19,550
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Table 8
Projected demand multiple dry year period ending in 2020 - AFY

	13,093	13,201	13,310	13,418	13,527
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Table 9
Projected Supply and Demand Comparison during multiple dry year period ending in 2020- AF Year

	12,262	10,301	10,300	10,300	10,300
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Table 10
Projected supply during multiple dry year period ending in 2025 - AF Year

	25,357	19,550	19,550	19,550	19,550
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Table 11
Projected demand multiple dry year period ending in 2025 - AFY

	13,527	13,527	13,527	13,527	13,527
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Table 12
Projected Supply and Demand Comparison during multiple dry year period ending in 2025- AF Year

	11,830	10,023	10,023	10,023	10,023
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Attachment 3
2003 BMP Reports to CUWCC

Best Management Practices Report Filing

- Home
- Contact Us
- FAQs
- Viewing Reports
- Submitted
- View Past

Welcome David Wenslawski, to City of Benicia's own BMP Report Filing HOME page dated May 08, 2006. If this is your first visit, we recommend reviewing the Frequently Asked Questions (FAQs) and the BMP Reporting Tutorial.

• BACKGROUND / ONE-TIME FORMS:

- ◆ Signatory / Reporting Unit Profile (Update/Add/Disable accounts)
- ◆ Base Year Data (File FIRST in order to submit any other report form.)
- ◆ BMP Activity History (File SECOND to ensure credit for past BMP activity.)

• ANNUAL BMP AND REPORT FORMS: Complete Annually / File Biennially

Select any VIEWER icon to enter data or edit your annual report. Select the linked % number to view your report form with a status report which includes any missing or invalid responses.

California
Urban Water
Conservation
Council

Logout

Memorandum of Understanding

◀ YEARS DOWN - UP ▶

REPORT FORM NAME	Year: 2003		Year: 2004	
	Form With Status Report	Input Form	Form With Status Report	Input Form
◆ Water Supply & Reuse	Submitted to CUWCC 02/24/2005		Submitted to CUWCC 02/24/2005	
◆ Accounts & Water Use	Submitted to CUWCC 02/24/2005		Submitted to CUWCC 02/24/2005	
BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers	Exemption request filed		Exemption request filed	
BMP 02: Residential Plumbing Retrofit	Exemption request filed		Exemption request filed	
BMP 03: System Water Audits, Leak Detection and Repair	Submitted to CUWCC 02/24/2005		Submitted to CUWCC 02/24/2005	
BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing	Submitted to CUWCC 02/24/2005		Submitted to CUWCC 02/24/2005	
BMP 05: Large Landscape Conservation Programs and Incentives	Exemption request filed		Exemption request filed	
BMP 06: High-Efficiency Washing Machine Rebate Programs	Exemption request filed		Exemption request filed	
BMP 07: Public Information Programs	Submitted to CUWCC 02/24/2005		Submitted to CUWCC 02/24/2005	
BMP 08: School Education Programs	Submitted to CUWCC 02/24/2005		Submitted to CUWCC 02/24/2005	
BMP 09: Conservation Programs for CII Accounts	Exemption request filed		Exemption request filed	
BMP 09a: CII ULFT Water Savings	Exemption request filed		Exemption request filed	
BMP 11: Conservation Pricing	Submitted to CUWCC 02/24/2005		Submitted to CUWCC 02/24/2005	
BMP 12: Conservation Coordinator	Submitted to CUWCC 02/24/2005		Submitted to CUWCC 02/24/2005	
BMP 13: Water Waste Prohibition	Submitted to CUWCC 02/24/2005		Submitted to CUWCC 02/24/2005	
BMP 14: Residential ULFT Replacement Programs	Submitted to CUWCC 02/24/2005		Submitted to CUWCC 02/24/2005	

Reported as of 2/24/05

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2003**

A. Implementation

1. Has your agency completed a pre-screening system audit for this reporting year? yes
2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
 - a. Determine metered sales (AF) 4917.1
 - b. Determine other system verifiable uses (AF) 160.2
 - c. Determine total supply into the system (AF) 5889.4
 - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 0.86
3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production? yes
4. Did your agency complete a full-scale audit during this report year? no
5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit? no
6. Does your agency operate a system leak detection program? no
 - a. If yes, describe the leak detection program:

B. Survey Data

1. Total number of miles of distribution system line. 96
2. Number of miles of distribution system line surveyed. 0

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	632260	586802
2. Actual Expenditures	349258.91	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The City has a service line replacement program to replace failing service lines. In certain areas of the City plastic service lines were installed. These lines are failing and the City is replacing them. It is

anticipated that approximately 250 service lines will be replaced each year until all plastic lines have been replaced. The City also has a water line replacement program aimed at replacing undersized and aging infrastructure.

E. Comments

Reported as of 2/24/05

BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2003**

A. Implementation

- 1. Does your agency require meters for all new connections and bill by volume-of-use? yes
- 2. Does your agency have a program for retrofitting existing unmetered connections and bill by volume-of-use? no
 - a. If YES, when was the plan to retrofit and bill by volume-of-use existing unmetered connections completed?
 - b. Describe the program:

All connections are metered and billed by volume-of-use.
- 3. Number of previously unmetered accounts fitted with meters during report year. 0

B. Feasibility Study

- 1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no
 - a. If YES, when was the feasibility study conducted? (mm/dd/yy)
 - b. Describe the feasibility study:
- 2. Number of CII accounts with mixed-use meters. 703
- 3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 0

C. Meter Retrofit Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

D. "At Least As Effective As"

- 1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

Benicia has been fully metered since 1962, with customers billed on volume of use

Reported as of 2/24/05

BMP 07: Public Information Programs

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2003**

A. Implementation

1. Does your agency maintain an active public information program to promote and educate customers about water conservation? yes

a. If YES, describe the program and how it's organized.

The City maintains an active public information program. The program addresses water supply, water quality, and water use efficiency issues. Information outreach includes periodic bill inserts addressing water use efficiency, distribution of conservation pamphlets and irrigation booklets, and distribution of conservation information at community events.

2. Indicate which and how many of the following activities are included in your public information program.

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	no	
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	2
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	1
g. Speaker's Bureau	no	
h. Program to coordinate with other government agencies, industry and public interest groups and media	yes	

B. Conservation Information Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	10000	10000
2. Actual Expenditures	5350	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 2/24/05

BMP 08: School Education Programs

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2003**

A. Implementation

1. Has your agency implemented a school information program to promote water conservation? yes

2. Please provide information on your school programs (by grade level):

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
Grades K-3rd	yes	25	500	0
Grades 4th-6th	yes	28	798	0
Grades 7th-8th	no	0	0	0
High School	no	0	0	0

3. Did your Agency's materials meet state education framework requirements? yes

4. When did your Agency begin implementing this program? 10/01/1998

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	10269	12000
2. Actual Expenditures	10269	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 2/24/05

BMP 11: Conservation Pricing

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2003**

A. Implementation**Rate Structure Data Volumetric Rates for Water Service by Customer Class****1. Residential**

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	\$3483472.51
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$100534.8

2. Commercial

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Increasing Block
c. Total Revenue from Volumetric Rates	\$1034717.4
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$29476.22

3. Industrial

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Increasing Block
c. Total Revenue from Volumetric Rates	\$167465.93
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$5103.5

4. Institutional / Government

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Increasing Block
c. Total Revenue from Volumetric Rates	\$140872
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

5. Irrigation

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0

d. Total Revenue from
Non-Volumetric Charges, Fees and other Revenue Sources \$0

6. Other

a. Water Rate Structure Increasing Block

b. Sewer Rate Structure Increasing Block

c. Total Revenue from Volumetric Rates \$806043.8

d. Total Revenue from
Non-Volumetric Charges, Fees and other Revenue Sources \$0

B. Conservation Pricing Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Irrigation revenue is included with the commercial revenue data. All revenue from institutional accounts is lumped into the volumetric totals. The non-volumetric revenue couldn't be seperated.

Reported as of 2/24/05

BMP 12: Conservation Coordinator

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2003**

A. Implementation

- 1. Does your Agency have a conservation coordinator? yes
- 2. Is this a full-time position? no
- 3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? no
- 4. Partner agency's name:
- 5. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? 50%
 - b. Coordinator's Name David Wenslawski
 - c. Coordinator's Title Water Quality Technician
 - d. Coordinator's Experience and Number of Years New to position zero years experience
 - e. Date Coordinator's position was created (mm/dd/yyyy) 12/09/1991
- 6. Number of conservation staff, including Conservation Coordinator. 1

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	25606	38189
2. Actual Expenditures	25606	

C. "At Least As Effective As"

- 1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 2/24/05

BMP 13: Water Waste Prohibition

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2003**

A. Requirements for Documenting BMP Implementation

1. Is a water waste prohibition ordinance in effect in your service area? yes

a. If YES, describe the ordinance:

The City of Benicia adopted an emergency water conservation plan in 1991 that incorporates water waste prohibitions consistent with implementation of BMP 13. The ordinance specifies maximum residential and non-residential water use by shortage stage that effectively eliminates non-essential uses. For users who exceed the amount of water allowed per shortage stage, they are subject to a drought penalty.

2. Is a copy of the most current ordinance(s) on file with CUWCC? yes

a. List local jurisdictions in your service area in the first text box and water waste ordinance citations in each jurisdiction in the second text box:

City of Benicia

No Citations were issued.

B. Implementation

1. Indicate which of the water uses listed below are prohibited by your agency or service area.

- | | |
|---|-----|
| a. Gutter flooding | yes |
| b. Single-pass cooling systems for new connections | no |
| c. Non-recirculating systems in all new conveyor or car wash systems | no |
| d. Non-recirculating systems in all new commercial laundry systems | no |
| e. Non-recirculating systems in all new decorative fountains | no |
| f. Other, please name
Failing to repair controllable leaks, using water for cleaning sidewalks, driveways, courts, patios or other paved surfaces. | yes |

2. Describe measures that prohibit water uses listed above:

The ordinance sets maximum water use limits based on the conservation stage. If the limit is exceeded a drought surcharge is assessed.

Water Softeners:

3. Indicate which of the following measures your agency has supported in developing state law:

- | | |
|--|-----|
| a. Allow the sale of more efficient, demand-initiated regenerating DIR models. | yes |
| b. Develop minimum appliance efficiency standards that: | |

- i.) Increase the regeneration efficiency standard to at least 3,350 grains of hardness removed per pound of common salt used. yes
- ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced. yes
- c. Allow local agencies, including municipalities and special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply. yes
- 4. Does your agency include water softener checks in home water audit programs? no
- 5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? no

C. Water Waste Prohibition Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

D. "At Least As Effective As"

- 1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The plan does not specifically prohibit single pass cooling systems in new connections, or non-recirculating systems in new car wash and laundry systems. However, the plan specifies maximum residential and non-residential water use by shortage stage that effectively eliminates non-essential uses. Therefore the implementation status is considered at least as effective.

E. Comments

Reported as of 2/24/05

BMP 14: Residential ULFT Replacement Programs

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2003**

A. Implementation

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	no	no

Number of Toilets Replaced by Agency Program During Report Year

Replacement Method	SF Accounts	MF Units
2. Rebate	0	0
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	0	0
Total	0	0

6. Describe your agency's ULFT program for single-family residences.

7. Describe your agency's ULFT program for multi-family residences.

8. Is a toilet retrofit on resale ordinance in effect for your service area? no

9. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

B. Residential ULFT Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	5000
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 2/24/05

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

1. Has your agency completed a pre-screening system audit for this reporting year? yes
2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
 - a. Determine metered sales (AF) 5459.7
 - b. Determine other system verifiable uses (AF) 159
 - c. Determine total supply into the system (AF) 6271
 - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 0.90
3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production? yes
4. Did your agency complete a full-scale audit during this report year? no
5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit? no
6. Does your agency operate a system leak detection program? no
 - a. If yes, describe the leak detection program:

B. Survey Data

1. Total number of miles of distribution system line. 96
2. Number of miles of distribution system line surveyed. 0

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	586802	273914
2. Actual Expenditures	160502.6	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The City has a service line replacement program to replace failing service lines. In certain areas of the City plastic service lines were installed. These lines are failing and the City is replacing them. It is

anticipated that approximately 250 service lines will be replaced each year until all plastic lines have been replaced. The City also has a water line replacement program aimed at replacing undersized and aging infrastructure.

E. Comments

Reported as of 2/24/05

BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

1. Does your agency require meters for all new connections and bill by volume-of-use? yes
2. Does your agency have a program for retrofitting existing unmetered connections and bill by volume-of-use? no
 - a. If YES, when was the plan to retrofit and bill by volume-of-use existing unmetered connections completed?
 - b. Describe the program:
3. Number of previously unmetered accounts fitted with meters during report year. 0

B. Feasibility Study

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no
 - a. If YES, when was the feasibility study conducted? (mm/dd/yy)
 - b. Describe the feasibility study:
2. Number of CII accounts with mixed-use meters. 715
3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 0

C. Meter Retrofit Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

Benicia has been fully metered since 1962 with customers billed on volume of use.

Reported as of 2/24/05

BMP 07: Public Information Programs

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

1. Does your agency maintain an active public information program to promote and educate customers about water conservation? yes

a. If YES, describe the program and how it's organized.

The City maintains an active public information program. This program addresses water supply, water quality, and water use efficiency issues. Information outreach includes periodic bill inserts addressing water use efficiency, distribution of conservation pamphlets and irrigation booklets, and distribution of conservation information at community events.

2. Indicate which and how many of the following activities are included in your public information program.

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	yes	1
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	2
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	1
g. Speaker's Bureau	no	
h. Program to coordinate with other government agencies, industry and public interest groups and media	yes	

B. Conservation Information Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	10000	10000
2. Actual Expenditures	8900	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 2/24/05

BMP 08: School Education Programs

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

1. Has your agency implemented a school information program to promote water conservation? yes

2. Please provide information on your school programs (by grade level):

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
Grades K-3rd	yes	33	600	0
Grades 4th-6th	yes	27	780	0
Grades 7th-8th	no	0	0	0
High School	no	0	0	0

3. Did your Agency's materials meet state education framework requirements? yes

4. When did your Agency begin implementing this program? 10/01/1998

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	13186	12000
2. Actual Expenditures	13186	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 2/24/05

BMP 11: Conservation Pricing

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

Rate Structure Data Volumetric Rates for Water Service by Customer Class

1. Residential

- a. Water Rate Structure Increasing Block
- b. Sewer Rate Structure Non-volumetric Flat Rate
- c. Total Revenue from Volumetric Rates \$3795617.28
- d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources \$107114.28

2. Commercial

- a. Water Rate Structure Increasing Block
- b. Sewer Rate Structure Increasing Block
- c. Total Revenue from Volumetric Rates \$1223095.4
- d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources \$31251.68

3. Industrial

- a. Water Rate Structure Increasing Block
- b. Sewer Rate Structure Increasing Block
- c. Total Revenue from Volumetric Rates \$191968.65
- d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources \$5545.46

4. Institutional / Government

- a. Water Rate Structure Increasing Block
- b. Sewer Rate Structure Increasing Block
- c. Total Revenue from Volumetric Rates \$71620
- d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources \$0

5. Irrigation

- a. Water Rate Structure Increasing Block
- b. Sewer Rate Structure Service Not Provided
- c. Total Revenue from Volumetric Rates \$0

d. Total Revenue from
Non-Volumetric Charges, Fees and other Revenue Sources \$0

6. Other

a. Water Rate Structure Increasing Block

b. Sewer Rate Structure Increasing Block

c. Total Revenue from Volumetric Rates \$905563.45

d. Total Revenue from
Non-Volumetric Charges, Fees and other Revenue Sources \$0

B. Conservation Pricing Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Irrigation revenue is included with the commercial revenue data. All revenue from institutional accounts is lumped into the volumetric totals. The non-volumetric revenue couldn't be seperated.

Reported as of 2/24/05

BMP 12: Conservation Coordinator

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

1. Does your Agency have a conservation coordinator? yes
2. Is this a full-time position? no
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? no
4. Partner agency's name:
5. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? 50%
 - b. Coordinator's Name David Wenslawski
 - c. Coordinator's Title Water Quality Technician
 - d. Coordinator's Experience and Number of Years One year of experience
 - e. Date Coordinator's position was created (mm/dd/yyyy) 12/09/1991
6. Number of conservation staff, including Conservation Coordinator. 1

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	38189	42000
2. Actual Expenditures	38189	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

i.) Increase the regeneration efficiency standard to at least 3,350 grains of hardness removed per pound of common salt used. yes

ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced. yes

c. Allow local agencies, including municipalities and special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply. yes

4. Does your agency include water softener checks in home water audit programs? no

5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? no

C. Water Waste Prohibition Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The plan does not specifically prohibit single pass cooling systems in new connections, or non-recirculating systems in new car wash and laundry systems. However, the plan specifies maximum residential and non-residential water use by shortage stage that effectively eliminates non-essential uses. Therefore the implementation status is considered at least as effective.

E. Comments

Reported as of 2/24/05

BMP 14: Residential ULFT Replacement Programs

Reporting Unit: **City of Benicia** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	no	yes

Number of Toilets Replaced by Agency Program During Report Year

Replacement Method	SF Accounts	MF Units
2. Rebate	0	13
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	0	0
Total	0	13

6. Describe your agency's ULFT program for single-family residences.

7. Describe your agency's ULFT program for multi-family residences.

The City implemented a pilot ULFT program in 2004. The program targeted multi-family residential properties that were constructed prior to 1992. Do to limited financial resources and that it was a pilot project the program was not offered to all properties. A \$100 rebate was offered for each high flow toilet that was replaced with a ULFT. The rebate was good for the cost of the toilet tank, bowl, and wax ring (not including seat, fittings, installation, and disposal charges). Participants must be a multi-family property owner. The customer was responsible for selecting, purchasing, and arranging for installation and disposal of the old toilet. Letters were mailed to selected complexes. Rebates were offered on a first come first serve basis. The ULFT pilot program will be evaluated for cost-effectiveness to determine how the program will be implemented in the future.

8. Is a toilet retrofit on resale ordinance in effect for your service area? no

9. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

B. Residential ULFT Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	5000	0
2. Actual Expenditures	1300	

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments