

## **Appendix A**

### **California Water Code Division 6 Part 2.6 Urban Water Management Planning**

**Established:** AB 797, Klehs, 1983

**Amended:** AB 2661, Klehs, 1990

AB 11X, Filante, 1991

AB 1869, Speier, 1991

AB 892, Frazee, 1993

SB 1017, McCorquodale, 1994

AB 2853, Cortese, 1994

AB 1845, Cortese, 1995

SB 1011, Polanco, 1995

AB 2552, Bates, 2000

SB 553, Kelley, 2000

SB 610, Costa, 2001

AB 901, Daucher, 2001

SB 672, Machado, 2001

SB 1348, Brulte, 2002

SB 1384, Costa, 2002

SB 1518, Torlakson, 2002

AB 105, Wiggins, 2004

SB 318, Alpert, 2004

## **CALIFORNIA WATER CODE DIVISION 6 PART 2.6. URBAN WATER MANAGEMENT PLANNING**

### **CHAPTER 1. GENERAL DECLARATION AND POLICY**

10610. This part shall be known and may be cited as the "Urban Water Management Planning Act."

10610.2. (a) The Legislature finds and declares all of the following:

- (1) The waters of the state are a limited and renewable resource subject to ever-increasing demands.
- (2) The conservation and efficient use of urban water supplies are of statewide concern; however, the planning for that use and the implementation of those plans can best be accomplished at the local level.
- (3) A long-term, reliable supply of water is essential to protect the productivity of California's businesses and economic climate.
- (4) As part of its long-range planning activities, every urban water supplier should make every effort to ensure the appropriate level of reliability in

its water service sufficient to meet the needs of its various categories of customers during normal, dry, and multiple dry water years.

- (5) Public health issues have been raised over a number of contaminants that have been identified in certain local and imported water supplies.
- (6) Implementing effective water management strategies, including groundwater storage projects and recycled water projects, may require specific water quality and salinity targets for meeting groundwater basins water quality objectives and promoting beneficial use of recycled water.
- (7) Water quality regulations are becoming an increasingly important factor in water agencies' selection of raw water sources, treatment alternatives, and modifications to existing treatment facilities.
- (8) Changes in drinking water quality standards may also impact the usefulness of water supplies and may ultimately impact supply reliability.
- (9) The quality of source supplies can have a significant impact on water management strategies and supply reliability.

(b) This part is intended to provide assistance to water agencies in carrying out their long-term resource planning responsibilities to ensure adequate water supplies to meet existing and future demands for water.

10610.4. The Legislature finds and declares that it is the policy of the state as follows:

- (a) The management of urban water demands and efficient use of water shall be actively pursued to protect both the people of the state and their water resources.
- (b) The management of urban water demands and efficient use of urban water supplies shall be a guiding criterion in public decisions.
- (c) Urban water suppliers shall be required to develop water management plans to actively pursue the efficient use of available supplies.

## **CHAPTER 2. DEFINITIONS**

10611. Unless the context otherwise requires, the definitions of this chapter govern the construction of this part.

10611.5. "Demand management" means those water conservation measures, programs, and incentives that prevent the waste of water and promote the reasonable and efficient use and reuse of available supplies.

10612. "Customer" means a purchaser of water from a water supplier who uses the water for municipal purposes, including residential, commercial, governmental, and industrial uses.

10613. "Efficient use" means those management measures that result in the most effective use of water so as to prevent its waste or unreasonable use or unreasonable method of use.

10614. "Person" means any individual, firm, association, organization, partnership, business, trust, corporation, company, public agency, or any agency of such an entity.

10615. "Plan" means an urban water management plan prepared pursuant to this part. A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. The components of the plan may vary according to an individual community or area's characteristics and its capabilities to efficiently use and conserve water. The plan shall address measures for residential, commercial, governmental, and industrial water demand management as set forth in Article 2 (commencing with Section 10630) of Chapter 3. In addition, a strategy and time schedule for implementation shall be included in the plan.

10616. "Public agency" means any board, commission, county, city and county, city, regional agency, district, or other public entity.

10616.5. "Recycled water" means the reclamation and reuse of wastewater for beneficial use.

10617. "Urban water supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. An urban water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers. This part applies only to water supplied from public water systems subject to Chapter 4 (commencing with Section 116275) of Part 12 of Division 104 of the Health and Safety Code.

### **CHAPTER 3. URBAN WATER MANAGEMENT PLANS**

#### **Article 1. General Provisions**

10620.

- (a) Every urban water supplier shall prepare and adopt an urban water management plan in the manner set forth in Article 3 (commencing with Section 10640).

- (b) Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.
- (c) An urban water supplier indirectly providing water shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, or to their customers, without the consent of those suppliers or public agencies.
- (d)
  - (1) An urban water supplier may satisfy the requirements of this part by participation in areawide, regional, watershed, or basinwide urban water management planning where those plans will reduce preparation costs and contribute to the achievement of conservation and efficient water use.
  - (2) Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.
- (e) The urban water supplier may prepare the plan with its own staff, by contract, or in cooperation with other governmental agencies.
- (f) An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.

10621.

- (a) Each urban water supplier shall update its plan at least once every five years on or before December 31, in years ending in five and zero.
- (b) Every urban water supplier required to prepare a plan pursuant to this part shall notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. The urban water supplier may consult with, and obtain comments from, any city or county that receives notice pursuant to this subdivision.
- (c) The amendments to, or changes in, the plan shall be adopted and filed in the manner set forth in Article 3 (commencing with Section 10640).

## **Article 2. Contents of Plans**

10630. It is the intention of the Legislature, in enacting this part, to permit levels of water management planning commensurate with the numbers of customers served and the volume of water supplied.

10631. A plan shall be adopted in accordance with this chapter and shall do all of the following:

- (a) Describe the service area of the supplier, including current and projected population, climate, and other demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.
- (b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a). If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:

- (1) A copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management.
- (2) A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree.

For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition.

- (3) A detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

- (4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.
- (c) Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following:
    - (1) An average water year.
    - (2) A single dry water year.
    - (3) Multiple dry water years.

For any water source that may not be available at a consistent level of use, given specific legal, environmental, water quality, or climatic factors, describe plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.

- (d) Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.
- (e)
  - (1) Quantify, to the extent records are available, past and current water use, over the same five-year increments described in subdivision (a), and projected water use, identifying the uses among water use sectors including, but not necessarily limited to, all of the following uses:
    - (A) Single-family residential.
    - (B) Multifamily.
    - (C) Commercial.
    - (D) Industrial.
    - (E) Institutional and governmental.
    - (F) Landscape.
    - (G) Sales to other agencies.
    - (H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof.
    - (I) Agricultural.
  - (2) The water use projections shall be in the same five-year increments described in subdivision (a).

- (f) Provide a description of the supplier's water demand management measures. This description shall include all of the following:
  - (1) A description of each water demand management measure that is currently being implemented, or scheduled for implementation, including the steps necessary to implement any proposed measures, including, but not limited to, all of the following:
    - (A) Water survey programs for single-family residential and multifamily residential customers.
    - (B) Residential plumbing retrofit.
    - (C) System water audits, leak detection, and repair.
    - (D) Metering with commodity rates for all new connections and retrofit of existing connections.
    - (E) Large landscape conservation programs and incentives.
    - (F) High-efficiency washing machine rebate programs.
    - (G) Public information programs.
    - (H) School education programs.
    - (I) Conservation programs for commercial, industrial, and institutional accounts.
    - (J) Wholesale agency programs.
    - (K) Conservation pricing.
    - (L) Water conservation coordinator.
    - (M) Water waste prohibition.
    - (N) Residential ultra-low-flush toilet replacement programs.
  - (2) A schedule of implementation for all water demand management measures proposed or described in the plan.
  - (3) A description of the methods, if any, that the supplier will use to evaluate the effectiveness of water demand management measures implemented or described under the plan.

- (4) An estimate, if available, of existing conservation savings on water use within the supplier's service area, and the effect of the savings on the supplier's ability to further reduce demand.
- (g) An evaluation of each water demand management measure listed in paragraph (1) of subdivision (f) that is not currently being implemented or scheduled for implementation. In the course of the evaluation, first consideration shall be given to water demand management measures, or combination of measures, that offer lower incremental costs than expanded or additional water supplies. This evaluation shall do all of the following:
- (1) Take into account economic and noneconomic factors, including environmental, social, health, customer impact, and technological factors.
  - (2) Include a cost-benefit analysis, identifying total benefits and total costs.
  - (3) Include a description of funding available to implement any planned water supply project that would provide water at a higher unit cost.
  - (4) Include a description of the water supplier's legal authority to implement the measure and efforts to work with other relevant agencies to ensure the implementation of the measure and to share the cost of implementation.
- (h) Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water use as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs, other than the demand management programs identified pursuant to paragraph (1) of subdivision (f), that the urban water supplier may implement to increase the amount of the water supply available to the urban water supplier in average, single-dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.
- (i) Describe the opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.
- (j) Urban water suppliers that are members of the California Urban Water Conservation Council and submit annual reports to that council

in accordance with the "Memorandum of Understanding Regarding Urban Water Conservation in California," dated September 1991, may submit the annual reports identifying water demand management measures currently being implemented, or scheduled for implementation, to satisfy the requirements of subdivisions (f) and (g).

- (k) Urban water suppliers that rely upon a wholesale agency for a source of water, shall provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years or as far as data is available. The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, the existing and planned sources of water as required by subdivision (b), available from the wholesale agency to the urban water supplier over the same five-year increments, and during various water-year types in accordance with subdivision (c). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (c), including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.

10631.5. The department shall take into consideration whether the urban water supplier is implementing or scheduled for implementation, the water demand management activities that the urban water supplier identified in its urban water management plan, pursuant to Section 10631, in evaluating applications for grants and loans made available pursuant to Section 79163. The urban water supplier may submit to the department copies of its annual reports and other relevant documents to assist the department in determining whether the urban water supplier is implementing or scheduling the implementation of water demand management activities.

10632. The plan shall provide an urban water shortage contingency analysis which includes each of the following elements which are within the authority of the urban water supplier:

- (a) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to a 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.
- (b) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.
- (c) Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including,

but not limited to, a regional power outage, an earthquake, or other disaster.

- (d) Additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.
- (e) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.
- (f) Penalties or charges for excessive use, where applicable.
- (g) An analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.
- (h) A draft water shortage contingency resolution or ordinance.
- (i) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.

10633. The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplier. The preparation of the plan shall be coordinated with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area, and shall include all of the following:

- (a) A description of the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.
- (b) A description of the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.
- (c) A description of the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.

- (d) A description and quantification of the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.
- (e) The projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision.
- (f) A description of actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water used per year.
- (g) A plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems, to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.

10634. The plan shall include information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments as described in subdivision (a) of Section 10631, and the manner in which water quality affects water management strategies and supply reliability.

### **Article 2.5 Water Service Reliability**

10635.

- (a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment shall compare the total water supply sources available to the water supplier with the total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and multiple dry water years. The water service reliability assessment shall be based upon the information compiled pursuant to Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.

- (b) The urban water supplier shall provide that portion of its urban water management plan prepared pursuant to this article to any city or county within which it provides water supplies no later than 60 days after the submission of its urban water management plan.
- (c) Nothing in this article is intended to create a right or entitlement to water service or any specific level of water service.
- (d) Nothing in this article is intended to change existing law concerning an urban water supplier's obligation to provide water service to its existing customers or to any potential future customers.

### **Articl 3. Adoption and Implementation of Plans**

10640. Every urban water supplier required to prepare a plan pursuant to this part shall prepare its plan pursuant to Article 2 (commencing with Section 10630).

The supplier shall likewise periodically review the plan as required by Section 10621, and any amendments or changes required as a result of that review shall be adopted pursuant to this article.

10641. An urban water supplier required to prepare a plan may consult with, and obtain comments from, any public agency or state agency or any person who has special expertise with respect to water demand management methods and techniques.

10642. Each urban water supplier shall encourage the active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan. Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold a public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to Section 6066 of the Government Code. The urban water supplier shall provide notice of the time and place of hearing to any city or county within which the supplier provides water supplies. A privately owned water supplier shall provide an equivalent notice within its service area. After the hearing, the plan shall be adopted as prepared or as modified after the hearing.

10643. An urban water supplier shall implement its plan adopted pursuant to this chapter in accordance with the schedule set forth in its plan.

10644.

- (a) An urban water supplier shall file with the department and any city or county within which the supplier provides water supplies a copy of its plan no later than 30 days after adoption. Copies of amendments or changes to the

plans shall be filed with the department and any city or county within which the supplier provides water supplies within 30 days after adoption.

- (b) The department shall prepare and submit to the Legislature, on or before December 31, in the years ending in six and one, a report summarizing the status of the plans adopted pursuant to this part. The report prepared by the department shall identify the outstanding elements of the individual plans. The department shall provide a copy of the report to each urban water supplier that has filed its plan with the department. The department shall also prepare reports and provide data for any legislative hearings designed to consider the effectiveness of plans submitted pursuant to this part.

10645. Not later than 30 days after filing a copy of its plan with the department, the urban water supplier and the department shall make the plan available for public review during normal business hours.

#### **CHAPTER 4. MISCELLANEOUS PROVISIONS**

10650. Any actions or proceedings to attack, review, set aside, void, or annul the acts or decisions of an urban water supplier on the grounds of noncompliance with this part shall be commenced as follows:

- (a) An action or proceeding alleging failure to adopt a plan shall be commenced within 18 months after that adoption is required by this part.
- (b) Any action or proceeding alleging that a plan, or action taken pursuant to the plan, does not comply with this part shall be commenced within 90 days after filing of the plan or amendment thereto pursuant to Section 10644 or the taking of that action.

10651. In any action or proceeding to attack, review, set aside, void, or annul a plan, or an action taken pursuant to the plan by an urban water supplier on the grounds of noncompliance with this part, the inquiry shall extend only to whether there was a prejudicial abuse of discretion. Abuse of discretion is established if the supplier has not proceeded in a manner required by law or if the action by the water supplier is not supported by substantial evidence.

10652. The California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) does not apply to the preparation and adoption of plans pursuant to this part or to the implementation of actions taken pursuant to Section 10632. Nothing in this part shall be interpreted as exempting from the California Environmental Quality Act any project that would significantly affect water supplies for fish and wildlife, or any project for implementation of the plan, other than projects implementing Section 10632, or any project for expanded or additional water supplies.

10653. The adoption of a plan shall satisfy any requirements of state law, regulation, or order, including those of the State Water Resources Control Board and the Public Utilities Commission, for the preparation of water management plans or conservation plans; provided, that if the State Water Resources Control Board or the Public Utilities Commission requires additional information concerning water conservation to implement its existing authority, nothing in this part shall be deemed to limit the board or the commission in obtaining that information. The requirements of this part shall be satisfied by any urban water demand management plan prepared to meet federal laws or regulations after the effective date of this part, and which substantially meets the requirements of this part, or by any existing urban water management plan which includes the contents of a plan required under this part.

10654. An urban water supplier may recover in its rates the costs incurred in preparing its plan and implementing the reasonable water conservation measures included in the plan. Any best water management practice that is included in the plan that is identified in the "Memorandum of Understanding Regarding Urban Water Conservation in California" is deemed to be reasonable for the purposes of this section.

10655. If any provision of this part or the application thereof to any person or circumstances is held invalid, that invalidity shall not affect other provisions or applications of this part which can be given effect without the invalid provision or application thereof, and to this end the provisions of this part are severable.

10656. An urban water supplier that does not prepare, adopt, and submit its urban water management plan to the department in accordance with this part, is ineligible to receive funding pursuant to Division 24 (commencing with Section 78500) or Division 26 (commencing with Section 79000), or receive drought assistance from the state until the urban water management plan is submitted pursuant to this article.

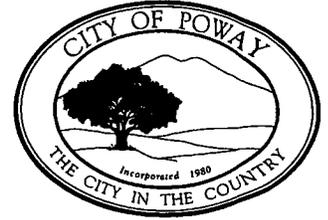
10657.

- (a) The department shall take into consideration whether the urban water supplier has submitted an updated urban water management plan that is consistent with Section 10631, as amended by the act that adds this section, in determining whether the urban water supplier is eligible for funds made available pursuant to any program administered by the department.
- (b) This section shall remain in effect only until January 1, 2006, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2006, deletes or extends that date.

## **Appendix B**

### **Notice of Public Hearing**

# NOTICE OF CITY COUNCIL PUBLIC HEARING



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NOTICE IS HEREBY GIVEN that the City Council of the City of Poway will hold a Public Hearing to consider the following item:

Adoption of the City of Poway's 2005 Urban Water Management Plan

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**DATE OF MEETING:** November 29, 2005  
**TIME OF MEETING:** 7:00 p.m.  
**LOCATION OF MEETING:** City Council Chambers  
13325 Civic Center Drive  
Poway, CA 92064  
**PROJECT NAME:** 2005 Urban Water Management Plan  
**STAFF PLANNER:** Tom Howard  
**PHONE NUMBER:** (858) 668-4750

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ANY INTERESTED PERSON may review the staff report and the plan and obtain additional information at the City of Poway, Public Works, 14467 Lake Poway Road, or at the City Clerk's Office, 13325 Civic Center Drive, Poway, California.

If you wish to express concerns in favor or against the above, you may appear in person at the above-described meeting or submit your concerns in writing to the City Clerk, City of Poway. If you challenge the matter in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the City Council at, or prior to, the public hearing.

*If you have special needs requiring assistance at the meeting, please call the City Clerk's Office at (858) 668-4530 at least 24 hours prior to the meeting so that accommodations can be arranged.*

Published in the Poway News Chieftain on November 17 and November 24, 2005.  
Order No. 05-122

**Appendix C**

**Resolution No. 05-096  
Approving and Adopting the  
City of Poway's 2005 Urban Water Management Plan**

RESOLUTION NO. 05-096

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF POWAY, CALIFORNIA  
ADOPTING THE CITY OF POWAY'S 2005 URBAN WATER MANAGEMENT PLAN  
AND RESCINDING RESOLUTION NO. 00-118.

WHEREAS, the California legislature enacted Assembly Bill 797 (Water Code Section 1061 et seq., known as the Urban Water Management Planning Act) during the 1983-1984 Regular Session (and as amended subsequently), which mandates that every supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually, prepare an Urban Water Management Plan, the primary objective of which is to plan for the conservation and efficient use of water; and

WHEREAS, the City is an urban supplier of water to over 14,058 customers; and

WHEREAS, the Urban Water Management Planning Act requires that the Plan be periodically reviewed at least once every five years, and that the City make any amendments or changes to its Plan which are indicated by the review; and

WHEREAS, the Plan is required by December 31, 2005, after public review and hearing, and must be filed with the California Department of Water Resources within thirty days of adoption; and

WHEREAS, the City has prepared and made available for review a 2005 Urban Water Management Plan, as on file at the City Clerk's Office, and properly noticed a public hearing held by the Poway City Council regarding said Plan on November 29, 2005.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Poway as follows:

Section 1. The 2005 City of Poway Urban Water Management Plan is hereby approved and adopted.

Section 2. The City Clerk is hereby authorized and directed to file the 2005 Urban Water Management Plan with the California Department of Water Resources within 30 days after this date.

Section 3. The City Manager is hereby authorized and directed to implement the Water Conservation Programs as set forth in the 2005 Urban Water Management Plan, which includes water shortage contingency analysis and implementation of Best Management Practices to carry out effective and equitable water conservation and water recycling programs.

Section 4. Resolution No. 00-118 is hereby rescinded.



**Appendix D**

**City of Poway  
FY 2003 and FY 2004  
Best Management Practices Annual Report**

# City of Poway

Best Management Practices Reports for FY 2003 and FY 2004

Submitted to the California Urban Water Conservation Council

**Accounts & Water Use**Reporting Unit Name:  
**City of Poway**Submitted to  
**CUWCC**  
**11/24/2004**Year:  
**2003****A. Service Area Population Information:**

1. Total service area population 49990

**B. Number of Accounts and Water Deliveries (AF)**

Type	Metered		Unmetered	
	No. of Accounts	Water Deliveries (AF)	No. of Accounts	Water Deliveries (AF)
1. Single-Family	12412	9542	0	0
2. Multi-Family	151	660	0	0
3. Commercial	479	502	0	0
4. Industrial	50	125	0	0
5. Institutional	86	463	0	0
6. Dedicated Irrigation	229	1086	0	0
7. Recycled Water	184	417	0	0
8. Other	220	735	0	0
9. Unaccounted	NA	0	NA	0
<b>Total</b>	13811	13530	0	0

**Metered****Unmetered**

Reported as of 8/3

## BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

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

### A. Implementation

- 1. Based on your signed MOU date, 10/28/1997, your Agency STRATEGY DUE DATE is: 10/28/1999
- 2. Has your agency developed and implemented a targeting/ marketing strategy for SINGLE-FAMILY residential water use surveys? yes
  - a. If YES, when was it implemented? 07/01/1995
- 3. Has your agency developed and implemented a targeting/ marketing strategy for MULTI-FAMILY residential water use surveys? yes
  - a. If YES, when was it implemented? 07/01/1995

### B. Water Survey Data

<b>Survey Counts:</b>	<b>Single Family Accounts</b>	<b>Multi-Family Units</b>
1. Number of surveys offered:	50	50
2. Number of surveys completed:	8	0

### Indoor Survey:

- 3. Check for leaks, including toilets, faucets and meter checks yes      yes
- 4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary yes      yes
- 5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as necessary; replace leaking toilet flapper, as necessary yes      yes

### Outdoor Survey:

- 6. Check irrigation system and timers yes      yes
- 7. Review or develop customer irrigation schedule yes      yes
- 8. Measure landscaped area (Recommended but not required for surveys) yes      yes
- 9. Measure total irrigable area (Recommended but not required for surveys) yes      yes
- 10. Which measurement method is typically used (Recommended but not required for surveys) Pacing
- 11. Were customers provided with information packets that included evaluation results and water savings recommendations? yes      yes
- 12. Have the number of surveys offered and completed, survey results, and survey costs been tracked? yes      yes
  - a. If yes, in what form are surveys tracked? database

b. Describe how your agency tracks this information.

The contractor tracks survey data, including number of surveys, in a database.

### C. Water Survey Program Expenditures

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	1754	1352
2. Actual Expenditures	220	

### 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

B.1: Number of survey offered is an estimate. SDCWA's consultant company does not have this statistic at this time. Item C.1.: Some budgeted expenditures "next year" include weather-based irrigation controllers.

Reported as of 8/3

## BMP 02: Residential Plumbing Retrofit

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

### A. Implementation

- 1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? no
  - a. If YES, list local jurisdictions in your service area and code or ordinance in each:
  
- 2. Has your agency satisfied the 75% saturation requirement for single-family housing units? yes
- 3. Estimated percent of single-family households with low-flow showerheads: 87%
- 4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? yes
- 5. Estimated percent of multi-family households with low-flow showerheads: 87%
- 6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

The San Diego County Water Authority and its member agencies distributed over 550,000 showerheads between 1991 and 2002. The average rate of natural replacement is 4.0%, while housing demolition is 0.5%. Since January 1, 1994, showerheads manufactured in the United States must be in compliance with 2.5 gpm maximum. Data gathered from the Residential Survey Program showed an 80-95% saturation of showerheads in homes surveyed. The Water Authority was unable to secure monies for a formal saturation study on showerheads during this period, but is continuing to pursue grant-funding opportunities.

### B. Low-Flow Device Distribution Information

- 1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? yes
  - a. If YES, when did your agency begin implementing this strategy? 07/01/1996
  - b. Describe your targeting/ marketing strategy.

Residential Survey distribution, Direct distribution to customers (lobby counters), Direct distribution at community events, Customer Request, and Distribution at CBO events.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units	
2. Number of low-flow showerheads distributed:	0	0	
3. Number of toilet-displacement devices distributed:	0	0	
4. Number of toilet flappers distributed:	0	0	
5. Number of faucet aerators distributed:	0	0	
6. Does your agency track the distribution and cost of low-flow devices?			no
a. If YES, in what format are low-flow devices tracked?			

b. If yes, describe your tracking and distribution system :

**C. Low-Flow Device Distribution Expenditures**

	<b>This Year</b>	<b>Next Year</b>
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**

Reported as of 8/3

**BMP 03: System Water Audits, Leak Detection and Repair**

Reporting Unit:  
**City of Poway**

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) 13120
  - b. Determine other system verifiable uses (AF) 64.79
  - c. Determine total supply into the system (AF) 13210
  - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 1.00
- 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. 246
- 2. Number of miles of distribution system line surveyed. 60

**C. System Audit / Leak Detection 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**

2b: water main breaks, hydrant hits, and potable water diverted into recycled water tank.

Reported as of 8/3

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

Reporting Unit:  
City of Poway

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 City of Poway connections are metered.

- 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. 386
- 3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 0

**C. Meter Retrofit Program Expenditures**

	<b>This Year</b>	<b>Next Year</b>
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**

Reported as of 8/3

## BMP 05: Large Landscape Conservation Programs and Incentives

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

### A. Water Use Budgets

- |  |     |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts:  | 229 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets:                       | 0   |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF):                     | 0   |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF):                       | 0   |
| 5. Does your agency provide water use notices to accounts with budgets each billing cycle? | no  |

### B. Landscape Surveys

- |  |            |
|--|------------|
| 1. Has your agency developed a marketing / targeting strategy for landscape surveys? | yes        |
| a. If YES, when did your agency begin implementing this strategy?                    | 08/10/1990 |
| b. Description of marketing / targeting strategy:                                    |            |

The San Diego County Water Authority provides landscape water use efficiency information that the City gives to new customers, large water users, and disperses at community events. Property owners contact the Water Authority to request a survey, which consists of prescreening and a review of water usage data records and the comparison of typical patterns of other industry or SIC water usage. Customers that exhibit unusually high water usage relative to the size of the property are sent a letter and a program brochure inviting them to participate in the program. The City endorses positive outreach to customers that are creating runoff.

- |   |     |
|---|-----|
| 2. Number of Surveys Offered.   | 30  |
| 3. Number of Surveys Completed.   | 2   |
| 4. Indicate which of the following Landscape Elements are part of your survey:  |     |
| a. Irrigation System Check  | yes |
| b. Distribution Uniformity Analysis   | yes |
| c. Review / Develop Irrigation Schedules  | yes |
| d. Measure Landscape Area   | yes |
| e. Measure Total Irrigable Area   | yes |
| f. Provide Customer Report / Information  | yes |
| 5. Do you track survey offers and results?                                      | yes |
| 6. Does your agency provide follow-up surveys for previously completed surveys? | yes |
| a. If YES, describe below:  |     |

All customers receive an offer for a follow-up survey.

### C. Other BMP 5 Actions

- |  |    |
|--|----|
| 1. An agency can provide mixed-use accounts with ETo-based landscape budgets in lieu of a large landscape survey | no |
|--|----|

- program.  
 Does your agency provide mixed-use accounts with landscape budgets? 4
2. Number of CII mixed-use accounts with landscape budgets. 4
3. Do you offer landscape irrigation training? yes
4. Does your agency offer financial incentives to improve landscape water use efficiency? yes

Type of Financial Incentive:	Budget (Dollars/Year)	Number Awarded to Customers	Total Amount Awarded
a. Rebates	0	0	0
b. Loans	0	0	0
c. Grants	0	0	0

5. Do you provide landscape water use efficiency information to new customers and customers changing services? yes

a. If YES, describe below:

Brochures and other literature is provided to the City by the Water Authority. It is dispersed to customers at City Hall and at community events. The City web page has a link to the Water Authority.

6. Do you have irrigated landscaping at your facilities? yes
- a. If yes, is it water-efficient? yes
- b. If yes, does it have dedicated irrigation metering? no
7. Do you provide customer notices at the start of the irrigation season? no
8. Do you provide customer notices at the end of the irrigation season? no

**D. Landscape Conservation Program Expenditures**

	This Year	Next Year
1. Budgeted Expenditures	1549	1549
2. Actual Expenditures	575	

**E. "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."

Majority of large landscape irrigation in in South Poway Business Park, which is 100% dedicated recycled water for irrigation. City established four water budgets for parks, which show actual water use is less than water budget amount. City is continuing to review whether to file for an exemption regarding water budget. City provides water customers comparative data on their usage by printing current and past month/year statistics Water bills.

**F. Comments**

Item B3: 2 PALM Item C2: Water Budgets were established for four City parks with mixed-use accounts. Analysis shows that actual use is consistently less than water budget amount. City of Poway is continuing

to review whether to file for an exemption for water budgets. Item C4: The City of Poway pays 25% of the cost of large turf audits for customers. General: Majority of large landscape irrigation in in South Poway Business Park, which is 100% dedicated recycled water for irrigation. City established four water budgets for parks, which show actual water use is less than water budget amount. City is continuing to review whether to file for an exemption regarding water budget. City provides water customers comparative data on their usage by printing current and past month/year statistics Water bills.

Reported as of 8/3

### BMP 06: High-Efficiency Washing Machine Rebate Programs

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

#### A. Implementation

- 1. Do any energy service providers or waste water utilities in your service area offer rebates for high-efficiency washers? yes
  - a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is.

San Diego Gas & Electric offered rebate of \$75.

- 2. Does your agency offer rebates for high-efficiency washers? yes
- 3. What is the level of the rebate? 125
- 4. Number of rebates awarded. 235

#### B. Rebate Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	4209	5225
2. Actual Expenditures	5225	

#### 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 8/3

### BMP 07: Public Information Programs

Reporting Unit:  
**City of Poway**

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 of Poway conducts public outreach in the following ways: promotion of water conservation at several City events including Community Day and Earth Day/Arbor Day, articles in the City's newsletter 'Poway Today', which is available in print and online, City's website has link to SDCWA for conservation and voucher information, brochures posted in City Hall lobby.

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	0
b. Public Service Announcement	yes	0
c. Bill Inserts / Newsletters / Brochures	yes	1
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	2
g. Speaker's Bureau	yes	0
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	1000	1000
2. Actual Expenditures	1000	

#### 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

The City of Poway relies on the San Diego County Water Authority (SDCWA) to provide the bulk of our public information services; however, the City also conducts public outreach.

Reported as of 8/3

### BMP 08: School Education Programs

Reporting Unit:  
**City of Poway**

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	5	100	0
Grades 4th-6th	yes	36	1229	4
Grades 7th-8th	yes	0	0	0
High School	yes	0	0	0

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

4. When did your Agency begin implementing this program? 01/01/1992

#### B. School Education 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

The SDCWA regional School Program is an established Program with a renowned reputation throughout the region. The Program offers students from kindergarten through high school a wide array of educational opportunities including the Splash Mobile, water testing kits, and computer programs. The Program is available to over 400 elementary schools, over 80 middle schools, as well as over 60 high schools. Teachers are offered classroom presentations, mini-grants, and curriculum materials including videos, workbooks, and other informational handouts. Since this Program reflects educational activity to all retail agencies, the number of class presentations, students reached, and teacher workshops are recorded in each of the SDCWA's member agencies BMP Report. However, the SDCWA has recorded overall expenditures in their wholesale report. This data is from September 2003 to June 2004 but is representative of 2003.

Reported as of 8/3

**BMP 09: Conservation Programs for CII Accounts**

Reporting Unit:

BMP Form Status:

Year:

**City of Poway****100% Complete****2003****A. Implementation**

- |  |     |
|--|-----|
| 1. Has your agency identified and ranked COMMERCIAL customers according to use?    | yes |
| 2. Has your agency identified and ranked INDUSTRIAL customers according to use?    | yes |
| 3. Has your agency identified and ranked INSTITUTIONAL customers according to use? | yes |

**Option A: CII Water Use Survey and Customer Incentives Program**

- |   |    |
|---|----|
| 4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option? | no |
|---|----|

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered	0	0	0
b. Number of New Surveys Completed	0	0	0
c. Number of Site Follow-ups of Previous Surveys (within 1 yr)	0	0	0
d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)	0	0	0

CII Survey Components	Commercial Accounts	Industrial Accounts	Institutional Accounts
e. Site Visit	no	no	no
f. Evaluation of all water-using apparatus and processes	no	no	no
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	no	no	no

Agency CII Customer Incentives	Budget (\$/Year)	No. Awarded to Customers	Total \$ Amount Awarded
h. Rebates	0	0	0
i. Loans	0	0	0
j. Grants	0	0	0
k. Others	0	0	0

**Option B: CII Conservation Program Targets**

- 5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this option? yes
- 6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? yes
- 7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991. 11.59
- 8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991. 0

**B. Conservation Program Expenditures for CII Accounts**

	This Year	Next Year
1. Budgeted Expenditures	3946	4009
2. Actual Expenditures	2128	

**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**

Commercial kitchen Pre-Rinse Spray Valve Program initiated towards end of fiscal year. Estimated savings of 0.34 AF.

Reported as of 8/3

**BMP 09a: CII ULFT Water Savings**

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

1. Did your agency implement a CII ULFT replacement program in the reporting year? Yes  
 If No, please explain why on Line B. 10.

**A. Targeting and Marketing**

1. What basis does your agency use to target customers for participation in this program? Potential savings  
 Check all that apply.

a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

Our CII Voucher Incentive Program contractor, HDMC has been a significant player in the promotion of water-efficient products in San Diego County. Working in cooperatin with WSA Marketing, a San Diego-based marketing and communications firm, HDMC has conducted extensive education, outreach, public relations, advertising, and direct-marketing activities. HDMC and WSA Marketing have created relationships with the owners, managers, and related customer service supervisors and staff at water-efficient product suppliers from Valley Center to San Ysidro for the past five years. Partnerships have been established with business owners, as well as key employees at wholesale and retail suppliers. Understanding of suppliers' business profiles, sales operations and accounting policies and procedures are key to the success of the program. Working relationships and/or qualified data has been gathered on over 200 plumbers. Dealers sign contracts each year in order to participate in a program that is responsible for increasing their sales substantially.

2. How does your agency advertise this program? Check all that apply. Newspapers  
Trade publications  
Other print media

a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

Extensive marketing in the region, outreach to retail and wholesale dealers with ongoing communication and training has made this program sucessful in this region.

**B. Implementation**

1. Does your agency keep and maintain customer participant information? (Read the Help information for a complete list of all the information for this BMP.) Yes

2. Would your agency be willing to share this information if the CUWCC did a study to evaluate the program on behalf of your agency? Yes

3. What is the total number of customer accounts participating in the program during the last year ? 9

4.	CII Subsector				Number of Toilets Replaced			
	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount				

a. Offices	0	0	0	0
b. Retail / Wholesale	0	0	0	0
c. Hotels	0	0	0	0
d. Health	0	0	0	0
e. Industrial	0	0	0	0
f. Schools: K to 12	0	0	0	0
g. Eating	0	0	0	0
h. Government	0	0	0	0
i. Churches	0	0	0	0
j. Other	0	0	0	0

5. Program design.

Rebate or voucher

6. Does your agency use outside services to implement this program? Yes

a. If yes, check all that apply.

Consultant  
Plumbing contractors/subcontracts

7. Participant tracking and follow-up.

Telephone  
Site Visit

8. Based on your program experience, please rank on a scale of 1 to 5, with 1 being the least frequent cause and 5 being the most frequent cause, the following reasons why customers refused to participate in the program.

- a. Disruption to business 4
- b. Inadequate payback 5
- c. Inadequate ULFT performance 3
- d. Lack of funding 5
- e. American's with Disabilities Act 2
- f. Permitting 2
- g. Other. Please describe in B. 9.

9. Please describe general program acceptance/resistance by customers, obstacles to implementation, and other issues affecting program implementation or effectiveness.

The CII Voucher Incentive Program continues to increase in popularity in the San Diego region. Extensive marketing by our contractor, coupled with our member agency support, has proven to be quite successful.

10. Please provide a general assessment of the program for this reporting year. Did your program achieve its objectives? Were your targeting and marketing approaches effective? Were program costs in line with expectations and budgeting?

The San Diego County Water Authority states that the program not only achieved objectives but exceeded expectations for the program.

**C. Conservation Program Expenditures for CII ULFT**

## 1. CII ULFT Program: Annual Budget &amp; Expenditure Data

	<b>Budgeted</b>	<b>Actual Expenditure</b>
a. Labor	0	0
b. Materials	0	0
c. Marketing & Advertising	0	0
d. Administration & Overhead	2576.57	1885
e. Outside Services	0	0
f. Total	2576.57	1885

## 2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution	3480
b. State agency contribution	0
c. Federal agency contribution	0
d. Other contribution	2576.57
e. Total	6056.57

**D. Comments**

Section C.2 This total represents the amount of funds available in our CII Voucher Incentive Program which besides ULFT's includes; CTCC's, Urinals, and HEW's. The contributing wholesale agencies are MWD and the SDCWA.

Reported as of 8/3

**BMP 11: Conservation Pricing**

Reporting Unit:  
City of Poway

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	Non-volumetric Flat Rate
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$7407654
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$1313829

**2. Commercial**

a. Water Rate Structure	Non-volumetric Flat Rate
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$364459
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$64641

**3. Industrial**

a. Water Rate Structure	Non-volumetric Flat Rate
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$91025
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$16144

**4. Institutional / Government**

a. Water Rate Structure	Non-volumetric Flat Rate
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$788914
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$139923

**5. Irrigation**

a. Water Rate Structure	Non-volumetric Flat Rate
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$788914
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$139923

**6. Other**

a. Water Rate Structure	Non-volumetric Flat Rate
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$533566

d. Total Revenue from Non-Volumetric  
Charges, Fees and other Revenue Sources \$94634

### **B. Conservation Pricing Program Expenditures**

	<b>This Year</b>	<b>Next Year</b>
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**

Reported as of 8/3

**BMP 12: Conservation Coordinator**

Reporting Unit:

BMP Form Status:

Year:

**City of Poway****100% Complete****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 ? yes
4. Partner agency's name: San Diego County Water Authority
5. If your agency supplies the conservation coordinator:
  - a. What percent is this conservation coordinator's position? 10%
  - b. Coordinator's Name Julie Magee
  - c. Coordinator's Title Management Analyst
  - d. Coordinator's Experience and Number of Years 2.0
  - e. Date Coordinator's position was created (mm/dd/yyyy) 03/01/1999
6. Number of conservation staff, including Conservation Coordinator. 4

**B. Conservation Staff 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**

As a member agency of the SDCWA, the City partners with the authority for most of its water conservation efforts.

Reported as of 8/3

**BMP 13: Water Waste Prohibition**

Reporting Unit:  
City of Poway

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:
  
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:

**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 yes
  - c. Non-recirculating systems in all new conveyor or car wash systems yes
  - d. Non-recirculating systems in all new commercial laundry systems yes
  - e. Non-recirculating systems in all new decorative fountains yes
  - f. Other, please name no
2. Describe measures that prohibit water uses listed above:

The San Diego County Standard Specifications for Public Works Construction.

**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? yes
5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement yes

of less efficient timer models?

**C. Water Waste Prohibition Program Expenditures**

	<b>This Year</b>	<b>Next Year</b>
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**

Reported as of 8/3

### BMP 14: Residential ULFT Replacement Programs

Reporting Unit: **City of Poway**      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?	yes	yes
<b>Number of Toilets Replaced by Agency Program During Report Year</b>		
Replacement Method	SF Accounts	MF Units
2. Rebate	0	0
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	613	40
<b>Total</b>		
	<b>613</b>	<b>40</b>

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

Through this program, residential customers are offered a voucher redeemable for up to \$75 off the purchase price of an approved ultra-low-flush toilet. The voucher is for a point-of-purchase discount only. ULFTs must be from the list of approved toilets. No after-purchase rebates are available.

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

Same as above. Single-family and multi-family customers are eligible to participate. Customers must be replacing existing high-volume fixtures.

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	15308	15308
2. Actual Expenditures	14449	

#### 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 8/3

**Accounts & Water Use**

Reporting Unit Name:  
City of Poway

Submitted to  
CUWCC  
11/24/2004

Year:  
2004

**A. Service Area Population Information:**

1. Total service area population 50600

**B. Number of Accounts and Water Deliveries (AF)**

Type	Metered		Unmetered	
	No. of Accounts	Water Deliveries (AF)	No. of Accounts	Water Deliveries (AF)
1. Single-Family	12515	10425	0	0
2. Multi-Family	152	686	0	0
3. Commercial	497	548	0	0
4. Industrial	49	124	0	0
5. Institutional	82	480	0	0
6. Dedicated Irrigation	251	918	0	0
7. Recycled Water	186	601	0	0
8. Other	209	835	0	0
9. Unaccounted	NA	0	NA	0
<b>Total</b>	13941	14617	0	0

**Metered****Unmetered**

Reported as of 8/3

## BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

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

### A. Implementation

- 1. Based on your signed MOU date, 10/28/1997, your Agency STRATEGY DUE DATE is: 10/28/1999
- 2. Has your agency developed and implemented a targeting/ marketing strategy for SINGLE-FAMILY residential water use surveys? yes
  - a. If YES, when was it implemented? 07/01/1995
- 3. Has your agency developed and implemented a targeting/ marketing strategy for MULTI-FAMILY residential water use surveys? yes
  - a. If YES, when was it implemented? 07/01/1995

### B. Water Survey Data

<b>Survey Counts:</b>	<b>Single Family Accounts</b>	<b>Multi-Family Units</b>
1. Number of surveys offered:	50	50
2. Number of surveys completed:	16	1

### Indoor Survey:

- 3. Check for leaks, including toilets, faucets and meter checks yes      yes
- 4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary yes      yes
- 5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as necessary; replace leaking toilet flapper, as necessary yes      yes

### Outdoor Survey:

- 6. Check irrigation system and timers yes      yes
- 7. Review or develop customer irrigation schedule yes      yes
- 8. Measure landscaped area (Recommended but not required for surveys) yes      yes
- 9. Measure total irrigable area (Recommended but not required for surveys) yes      yes
- 10. Which measurement method is typically used (Recommended but not required for surveys) Pacing
- 11. Were customers provided with information packets that included evaluation results and water savings recommendations? yes      yes
- 12. Have the number of surveys offered and completed, survey results, and survey costs been tracked? yes      yes
  - a. If yes, in what form are surveys tracked? database

b. Describe how your agency tracks this information.

The contractor tracks survey data, including number of surveys, in a database.

### C. Water Survey Program Expenditures

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	1352	1118
2. Actual Expenditures	583	

### 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

B.1: Number of survey offered is an estimate. SDCWA's consultant company does not have this statistic at this time. Item C.1.: Some budgeted expenditures "next year" include weather-based irrigation controllers.

Reported as of 8/3

## BMP 02: Residential Plumbing Retrofit

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

### A. Implementation

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? no
  - a. If YES, list local jurisdictions in your service area and code or ordinance in each:
  
2. Has your agency satisfied the 75% saturation requirement for single-family housing units? yes
3. Estimated percent of single-family households with low-flow showerheads: 87%
4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? yes
5. Estimated percent of multi-family households with low-flow showerheads: 87%
6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

The San Diego County Water Authority and its member agencies distributed over 550,000 showerheads between 1991 and 2002. The average rate of natural replacement is 4.0%, while housing demolition is 0.5%. Since January 1, 1994, showerheads manufactured in the United States must be in compliance with 2.5 gpm maximum. Data gathered from the Residential Survey Program showed an 80-95% saturation of showerheads in homes surveyed. The Water Authority was unable to secure monies for a formal saturation study on showerheads during this period, but is continuing to pursue grant-funding opportunities.

### B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? yes
  - a. If YES, when did your agency begin implementing this strategy? 07/01/1996
  - b. Describe your targeting/ marketing strategy.

Residential Survey distribution, Direct distribution to customers (lobby counters), Direct distribution at community events, Customer Request, and Distribution at CBO events.

<b>Low-Flow Devices Distributed/ Installed</b>	<b>SF Accounts</b>	<b>MF Units</b>	
2. Number of low-flow showerheads distributed:	0	0	
3. Number of toilet-displacement devices distributed:	0	0	
4. Number of toilet flappers distributed:	0	0	
5. Number of faucet aerators distributed:	0	0	
6. Does your agency track the distribution and cost of low-flow devices?			no
a. If YES, in what format are low-flow devices tracked?			

b. If yes, describe your tracking and distribution system :

**C. Low-Flow Device Distribution Expenditures**

	<b>This Year</b>	<b>Next Year</b>
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**

Reported as of 8/3

### BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:  
City of Poway

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) 14193
  - b. Determine other system verifiable uses (AF) 175.54
  - c. Determine total supply into the system (AF) 15235
  - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 0.94
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. 250
2. Number of miles of distribution system line surveyed. 55

#### C. System Audit / Leak Detection 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

2b: water main breaks, hydrant hits, and potable water diverted into the recycled water tank.

Reported as of 8/3

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

Reporting Unit: **City of Poway**      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:
 

All City of Poway connections are metered.
- 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. 377
- 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**

Reported as of 8/3

## BMP 05: Large Landscape Conservation Programs and Incentives

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

### A. Water Use Budgets

- |  |     |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts:  | 251 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets:                       | 0   |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF):                     | 0   |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF):                       | 0   |
| 5. Does your agency provide water use notices to accounts with budgets each billing cycle? | no  |

### B. Landscape Surveys

- |  |            |
|--|------------|
| 1. Has your agency developed a marketing / targeting strategy for landscape surveys? | yes        |
| a. If YES, when did your agency begin implementing this strategy?                    | 08/10/1990 |
| b. Description of marketing / targeting strategy:                                    |            |

The San Diego County Water Authority provides landscape water use efficiency information that the City gives to new customers, large water users, and disperses at community events. Property owners contact the Water Authority to request a survey, which consists of prescreening and a review of water usage data records and the comparison of typical patterns of other industry or SIC water usage. Customers that exhibit unusually high water usage relative to the size of the property are sent a letter and a program brochure inviting them to participate in the program. The City endorses positive outreach to customers that are creating runoff.

- |   |     |
|---|-----|
| 2. Number of Surveys Offered.   | 30  |
| 3. Number of Surveys Completed.   | 3   |
| 4. Indicate which of the following Landscape Elements are part of your survey:  |     |
| a. Irrigation System Check  | yes |
| b. Distribution Uniformity Analysis   | yes |
| c. Review / Develop Irrigation Schedules  | yes |
| d. Measure Landscape Area   | yes |
| e. Measure Total Irrigable Area   | yes |
| f. Provide Customer Report / Information  | yes |
| 5. Do you track survey offers and results?                                      | yes |
| 6. Does your agency provide follow-up surveys for previously completed surveys? | yes |
| a. If YES, describe below:  |     |

All customers receive an offer for a follow-up survey.

### C. Other BMP 5 Actions

- |  |    |
|--|----|
| 1. An agency can provide mixed-use accounts with ETo-based landscape budgets in lieu of a large landscape survey | no |
|--|----|

program.

Does your agency provide mixed-use accounts with landscape budgets?

2. Number of CII mixed-use accounts with landscape budgets. 4

3. Do you offer landscape irrigation training? yes

4. Does your agency offer financial incentives to improve landscape water use efficiency? yes

Type of Financial Incentive:	Budget (Dollars/Year)	Number Awarded to Customers	Total Amount Awarded
a. Rebates	0	0	0
b. Loans	0	0	0
c. Grants	0	0	0

5. Do you provide landscape water use efficiency information to new customers and customers changing services? yes

a. If YES, describe below:

Brochures and other literature is provided to the City by the Water Authority. It is dispersed to customers at City Hall and at community events. The City web page has a link to the Water Authority.

6. Do you have irrigated landscaping at your facilities? yes

a. If yes, is it water-efficient? yes

b. If yes, does it have dedicated irrigation metering? no

7. Do you provide customer notices at the start of the irrigation season? no

8. Do you provide customer notices at the end of the irrigation season? no

**D. Landscape Conservation Program Expenditures**

	This Year	Next Year
1. Budgeted Expenditures	1549	1380
2. Actual Expenditures	862.5	

**E. "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."

Majority of large landscape irrigation in in South Poway Business Park, which is 100% dedicated recycled water for irrigation. City established four water budgets for parks, which show actual water use is less than water budget amount. City is continuing to review whether to file for an exemption regarding water budget. City provides water customers comparative data on their usage by printing current and past month/year statistics Water bills.

**F. Comments**

Item B3: 3 PALM. Item C2: Water Budgets were established for four City parks with mixed-use accounts. Analysis shows that actual use is consistently less than water budget amount. City of Poway is continuing

to review whether to implement this program or to file for an exemption. City of Poway is continuing to review whether to file for an exemption. Item C4: The City of Poway pays 25% of the cost of large turf audits for customers. General: Majority of large landscape irrigation in in South Poway Business Park, which is 100% dedicated recycled water for irrigation. City established four water budgets for parks, which show actual water use is less than water budget amount. City is continuing to review whether to file for an exemption regarding water budget. City provides water customers comparative data on their usage by printing current and past month/year statistics Water bills.

Reported as of 8/3

### BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:  
City of Poway

BMP Form Status:  
100% Complete

Year:  
2004

#### A. Implementation

1. Do any energy service providers or waste water utilities in your service area offer rebates for high-efficiency washers? yes

a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is.

San Diego Gas & Electric offered tiered rebates of \$75 and \$125.

2. Does your agency offer rebates for high-efficiency washers? yes

3. What is the level of the rebate? 125

4. Number of rebates awarded. 314

#### B. Rebate Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	7383	7300
2. Actual Expenditures	7222	

#### 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 8/3

### BMP 07: Public Information Programs

Reporting Unit:

BMP Form Status:

Year:

City of Poway

100% Complete

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 of Poway conducts public outreach in the following ways: promotion of water conservation at several City events including Community Day and Earth Day/Arbor Day, articles in the City's newsletter 'Poway Today', which is available in print and online, brochures at City Hall, City's website has link to SDCWA for conservation and voucher information, Community Library has computers available to the public, Public Works staff are on Joint Public Information Committee and the Water Conservation Coordinators Committee both organized by SDCWA. City of Poway participates fully with SDCWA for regional public information programming.

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	0
b. Public Service Announcement	yes	0
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	2
g. Speaker's Bureau	yes	0
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	1000	1000
2. Actual Expenditures	1000	

#### 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

The City of Poway relies on the San Diego County Water Authority (SDCWA) to provide the bulk of our public information services. The City also conducts public outreach at community events.

Reported as of 8/3



**BMP 08: School Education Programs**

Reporting Unit:

BMP Form Status:

Year:

**City of Poway****100% Complete****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	5	100	0
Grades 4th-6th	yes	36	1229	4
Grades 7th-8th	yes	0	0	0
High School	yes	0	0	0

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

4. When did your Agency begin implementing this program? 01/01/1992

**B. School Education 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**

The SDCWA regional School Program is an established Program with a renowned reputation throughout the region. The Program offers students from kindergarten through high school a wide array of educational opportunities including the Splash Mobile, water testing kits, and computer programs. The Program is available to over 400 elementary schools, over 80 middle schools, as well as over 60 high schools. Teachers are offered classroom presentations, mini-grants, and curriculum materials including videos, workbooks, and other informational handouts. Since this Program reflects educational activity to all retail agencies, the number of class presentations, students reached, and teacher workshops are recorded in each of the SDCWA's member agencies BMP Report. However, the SDCWA has recorded overall expenditures in their wholesale report.

Reported as of 8/3

**BMP 09: Conservation Programs for CII Accounts**

Reporting Unit:  
City of Poway

BMP Form Status:  
100% Complete

Year:  
2004

**A. Implementation**

- 1. Has your agency identified and ranked COMMERCIAL customers according to use? yes
- 2. Has your agency identified and ranked INDUSTRIAL customers according to use? yes
- 3. Has your agency identified and ranked INSTITUTIONAL customers according to use? yes

**Option A: CII Water Use Survey and Customer Incentives Program**

4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option? no

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered	0	0	0
b. Number of New Surveys Completed	0	0	0
c. Number of Site Follow-ups of Previous Surveys (within 1 yr)	0	0	0
d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)	0	0	0
CII Survey Components	Commercial Accounts	Industrial Accounts	Institutional Accounts
e. Site Visit	no	no	no
f. Evaluation of all water-using apparatus and processes	no	no	no
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	no	no	no
Agency CII Customer Incentives	Budget (\$/Year)	No. Awarded to Customers	Total \$ Amount Awarded
h. Rebates	0	0	0
i. Loans	0	0	0
j. Grants	0	0	0
k. Others	0	0	0

**Option B: CII Conservation Program Targets**

- |   |       |
|---|-------|
| 5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this option?    | yes   |
| 6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? | yes   |
| 7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991.  | 23.59 |
| 8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991.                                      | 0     |

### **B. Conservation Program Expenditures for CII Accounts**

	<b>This Year</b>	<b>Next Year</b>
1. Budgeted Expenditures	4009	4009
2. Actual Expenditures	1693	

### **C. "At Least As Effective As"**

- |   |    |
|---|----|
| 1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?   | No |
| <p>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."</p> |    |

### **D. Comments**

Commercial kitchen Pre-Rinse Spray Valve Program estimated savings of 7.69 AF.

Reported as of 8/3

**BMP 09a: CII ULFT Water Savings**

Reporting Unit:  
City of Poway

BMP Form Status:  
100% Complete

Year:  
2004

1. Did your agency implement a CII ULFT replacement program in the reporting year?  
If No, please explain why on Line B. 10.

No

**A. Targeting and Marketing**

1. What basis does your agency use to target customers for participation in this program?  
Check all that apply.

a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

2. How does your agency advertise this program? Check all that apply.

a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

**B. Implementation**

1. Does your agency keep and maintain customer participant information? (Read the Help information for a complete list of all the information for this BMP.)

2. Would your agency be willing to share this information if the CUWCC did a study to evaluate the program on behalf of your agency?

3. What is the total number of customer accounts participating in the program during the last year ?

CII Subsector	Number of Toilets Replaced			
	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount
4.				
a. Offices				
b. Retail / Wholesale				
c. Hotels				
d. Health				
e. Industrial				
f. Schools: K to 12				
g. Eating				
h. Government				
i. Churches				
j. Other				

5. Program design.

6. Does your agency use outside services to implement this program?

a. If yes, check all that apply.

7. Participant tracking and follow-up.

8. Based on your program experience, please rank on a scale of 1 to 5, with 1 being the least frequent cause and 5 being the most frequent cause, the following reasons why customers refused to participate in the program.

a. Disruption to business

b. Inadequate payback

c. Inadequate ULFT performance

d. Lack of funding

e. American's with Disabilities Act

f. Permitting

g. Other. Please describe in B. 9.

9. Please describe general program acceptance/resistance by customers, obstacles to implementation, and other issues affecting program implementation or effectiveness.

10. Please provide a general assessment of the program for this reporting year. Did your program achieve its objectives? Were your targeting and marketing approaches effective? Were program costs in line with expectations and budgeting?

Programs are tracked on a fiscal year. As this was a three-year program, sunsetting on July 1, 2004, all reporting for BMP 9a was completed in 2003.

**C. Conservation Program Expenditures for CII ULFT**

1. CII ULFT Program: Annual Budget & Expenditure Data

	<b>Budgeted</b>	<b>Actual Expenditure</b>
a. Labor		
b. Materials		
c. Marketing & Advertising		
d. Administration & Overhead		
e. Outside Services		
f. Total	0	0

2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution		
b. State agency contribution		
c. Federal agency contribution		
d. Other contribution		
e. Total		0

**D. Comments**

Reported as of 8/3

**BMP 11: Conservation Pricing**

Reporting Unit:  
City of Poway

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	Non-volumetric Flat Rate
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$8899439
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$1332867

**2. Commercial**

a. Water Rate Structure	Non-volumetric Flat Rate
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$438869
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$65729

**3. Industrial**

a. Water Rate Structure	Non-volumetric Flat Rate
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$99056
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$14836

**4. Institutional / Government**

a. Water Rate Structure	Non-volumetric Flat Rate
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$735403
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$110141

**5. Irrigation**

a. Water Rate Structure	Non-volumetric Flat Rate
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$735403
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$110141

**6. Other**

a. Water Rate Structure	Non-volumetric Flat Rate
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$668866

d. Total Revenue from Non-Volumetric  
Charges, Fees and other Revenue Sources \$100176

**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**

Reported as of 8/3

**BMP 12: Conservation Coordinator**Reporting Unit:  
**City of Poway**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 ? yes
4. Partner agency's name: San Diego County Water Authority
5. If your agency supplies the conservation coordinator:
  - a. What percent is this conservation coordinator's position? 10%
  - b. Coordinator's Name Elizabeth Dean
  - c. Coordinator's Title Management Analyst
  - d. Coordinator's Experience and Number of Years 1.0
  - e. Date Coordinator's position was created (mm/dd/yyyy) 03/01/1999
6. Number of conservation staff, including Conservation Coordinator. 4

**B. Conservation Staff 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**

As a member agency of the SDCWA, the City partners with the authority for most of its water conservation efforts.

Reported as of 8/3

**BMP 13: Water Waste Prohibition**

Reporting Unit:

BMP Form Status:

Year:

City of Poway

100% Complete

2004

**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:

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:

**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 yes

c. Non-recirculating systems in all new conveyor or car wash systems yes

d. Non-recirculating systems in all new commercial laundry systems yes

e. Non-recirculating systems in all new decorative fountains yes

f. Other, please name no

2. Describe measures that prohibit water uses listed above:

The San Diego County Standard Specifications for Public Works Construction.

**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? yes

5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement? yes

of less efficient timer models?

**C. Water Waste Prohibition Program Expenditures**

	<b>This Year</b>	<b>Next Year</b>
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**

Reported as of 8/3

### BMP 14: Residential ULFT Replacement Programs

Reporting Unit: **City of Poway**      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?	yes	yes
<b>Number of Toilets Replaced by Agency Program During Report Year</b>		
Replacement Method	SF Accounts	MF Units
2. Rebate	0	0
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	559	63
<b>Total</b>		
	<b>559</b>	<b>63</b>

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

Through this program, residential customers are offered a voucher redeemable for up to \$75 off the purchase price of an approved ultra-low-flush toilet. The voucher is for a point-of-purchase discount only. ULFTs must be from the list of approved toilets. No after-purchase rebates are available.

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

Same as above. Single-family and multi-family customers are eligible to participate. Customers must be replacing existing high-volume fixtures.

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	15931	15308
2. Actual Expenditures	13829	

#### 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 8/3

## **Appendix E**

### **BMP Coverage Report 2003-2004**

# City of Poway

## BMP Coverage Report 2003-2004

Reported as of 9/

## BMP 01 Coverage: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit:  
City of Poway

Reporting Period:  
03-04

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period? No

A Reporting Unit (RU) must meet three conditions to satisfy strict compliance for BMP 1.

Condition 1: Adopt survey targeting and marketing strategy on time

Condition 2: Offer surveys to 20% of SF accounts and 20% of MF units during report period

Condition 3: Be on track to survey 15% of SF accounts and 15% of MF units within 10 years of implementation start date.

### Test for Condition 1

City of Poway to Implement Targeting/Marketing Program by:	1999		
		<b>Single-Family</b>	<b>Multi-Family</b>
Year City of Poway Reported Implementing Targeting/Marketing Program:	1995	1995	1995
City of Poway Met Targeting/Marketing Coverage Requirement:	YES	YES	YES

### Test for Condition 2

			<b>Single-Family</b>	<b>Multi-Family</b>
Survey Program to Start by:	1998	Residential Survey Offers (%)	0.85%	4.68%
Reporting Period:	03-04	Survey Offers ≥ 20%	NO	NO

### Test for Condition 3

	Completed Residential Surveys	
	<b>Single Family</b>	<b>Multi-Family</b>
Total Completed Surveys 1999 - 2004:	123	3
Past Credit for Surveys Completed Prior to 1999 (Implementation of Reporting Database):	98	1
<b>Total + Credit</b>	<b>221</b>	<b>4</b>
Residential Accounts in Base Year	11,706	2,135

City of Poway Survey Coverage as % of Base Year Residential Accounts	1.89%	0.19%
Coverage Requirement by Year 7 of Implementation per Exhibit 1	7.90%	7.90%
City of Poway on Schedule to Meet 10-Year Coverage Requirement	NO	NO

---

**BMP 1 COVERAGE STATUS SUMMARY:**

**Water supplier has not met one or more coverage requirements for this BMP.**

## BMP 02 Coverage: Residential Plumbing Retrofit

Reporting Unit:

Reporting Period:

**City of Poway**

**03-04**

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one of three conditions to satisfy strict compliance for BMP 2.

Condition 1: The agency has demonstrated that 75% of SF accounts and 75% of MF units constructed prior to 1992 are fitted with low-flow showerheads.

Condition 2: An enforceable ordinance requiring the replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts is in place for the agency's service area.

Condition 3: The agency has distributed or directly installed low-flow showerheads and other low-flow plumbing devices to not less than 10% of single-family accounts and 10% of multi-family units constructed prior to 1992 during the reporting period.

### Test for Condition 1

Report Year	Report Period	Single-Family		Multi-Family	
		Reported Saturation	Saturation > 75%?	Reported Saturation	Saturation > 75%?
1999	99-00	75.00%	YES	75.00%	YES
2000	99-00	75.00%	YES	75.00%	YES
2001	01-02	87.00%	YES	87.00%	YES
2002	01-02	87.00%	YES	87.00%	YES
2003	03-04	87.00%	YES	87.00%	YES
2004	03-04	87.00%	YES	87.00%	YES

### Test for Condition 2

Report Year	Report Period	City of Poway has ordinance requiring showerhead retrofit?
1999	99-00	NO
2000	99-00	NO
2001	01-02	NO
2002	01-02	NO
2003	03-04	NO
2004	03-04	NO

### Test for Condition 3

Reporting Period: 03-04

1992 SF Accounts	Num. Showerheads Distributed to SF Accounts	11,631	Single-Family Coverage Ratio	SF Coverage Ratio > 10%	NO
1992 MF Accounts	Num. Showerheads Distributed to MF Accounts		Multi-Family Coverage Ratio	MF Coverage Ratio > 10%	

2,008

NO

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**BMP 2 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**

Reported as of 9/

## BMP 03 Coverage: System Water Audits, Leak Detection and Repair

Reporting Unit:  
City of Poway

Reporting Period:  
03-04

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one of two conditions to be in compliance with BMP 3:

Condition 1: Perform a prescreening audit. If the result is equal to or greater than 0.9 nothing more needs be done.

Condition 2: Perform a prescreening audit. If the result is less than 0.9, perform a full audit in accordance with AWWA's Manual of Water Supply Practices, Water Audits, and Leak Detection.

### Test for Conditions 1 and 2

<u>Report Year</u>	<u>Report Period</u>	<u>Pre-Screen Completed</u>	<u>Pre-Screen Result</u>	<u>Full Audit Indicated</u>	<u>Full Audit Completed</u>
1999	99-00	YES	96.5%	No	NO
2000	99-00	YES	94.9%	No	NO
2001	01-02	NO			NO
2002	01-02	NO			NO
2003	03-04	YES	99.8%	No	NO
2004	03-04	YES	94.3%	No	NO

### BMP 3 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

Reported as of 9/

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

Reporting Unit:

Reporting Period:

**City of Poway****03-04**

### **MOU Exhibit 1 Coverage Requirement**

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

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An agency must be on track to retrofit 100% of its unmetered accounts within 10 years to be in compliance with BMP 4.

---

### **Test for Compliance**

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Total Meter Retrofits  
Reported through 2004No. of Unmetered Accounts  
in Base YearMeter Retrofit Coverage as  
% of Base Year Unmetered  
AccountsCoverage Requirement by  
Year 6 of Implementation per  
Exhibit 1

42.0%

RU on Schedule to meet 10  
Year Coverage Requirement

YES

---

### **BMP 4 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**

Reported as of 9/

## BMP 05 Coverage: Large Landscape Conservation Programs and Incentives

Reporting Unit:  
City of Poway

Reporting Period:  
03-04

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet three conditions to comply with BMP 5.

Condition 1: Develop water budgets for 90% of its dedicated landscape meter accounts within four years of the date implementation is to start.

Condition 2: (a) Offer landscape surveys to at least 20% of its CII accounts with mixed use meters each report cycle and be on track to survey at least 15% of its CII accounts with mixed use meters within 10 years of the date implementation is to start OR (b) Implement a dedicated landscape meter retrofit program for CII accounts with mixed use meters or assign landscape budgets to mixed use meters.

Condition 3: Implement and maintain customer incentive program(s) for irrigation equipment retrofits.

#### Test for Condition 1

Year	Report Period	BMP 5 Implementation Year	No. of Irrigation Meter Accounts	No. of Irrigation Accounts with Budgets	Budget Coverage Ratio	90% Coverage Met by Year 4
1999	99-00	1	384			NA
2000	99-00	2	384			NA
2001	01-02	3	429			NA
2002	01-02	4	495			No
2003	03-04	5	229			No
2004	03-04	6	251			No

#### Test for Condition 2a (survey offers)

Select Reporting Period:	03-04
Large Landscape Survey Offers as % of Mixed Use Meter CII Accounts	9.1%
Survey Offers Equal or Exceed 20% Coverage Requirement	NO

#### Test for Condition 2a (surveys completed)

Total Completed Landscape Surveys Reported through Credit for Surveys Completed Prior to Implementation of Reporting Database	10
Total + Credit	4
CII Accounts in Base Year	14
RU Survey Coverage as a % of Base Year CII Accounts	661
Coverage Requirement by Year of Implementation per Exhibit 1	2.1%
RU on Schedule to Meet 10 Year Coverage	6.3%

Requirement NO

**Test for Condition 2b (mixed use budget or meter retrofit program)**

<u>Report Year</u>	<u>Report Period</u>	<u>BMP 5 Implementation Year</u>	<u>Agency has mix-use budget program</u>	<u>No. of mixed-use budgets</u>
1999	99-00	1	NO	
2000	99-00	2	NO	
2001	01-02	3	NO	
2002	01-02	4	NO	
2003	03-04	5	NO	4
2004	03-04	6	NO	4

<u>Report Year</u>	<u>Report Period</u>	<u>BMP 4 Implementation Year</u>	<u>No. of mixed use CII accounts</u>	<u>No. of mixed use CII accounts fitted with irrig. meters</u>
1999	99-00	1	223	
2000	99-00	2	233	
2001	01-02	3	248	
2002	01-02	4	384	
2003	03-04	5	386	
2004	03-04	6	377	

**Test for Condition 3**

<u>Report Year</u>	<u>Report Period</u>	<u>BMP 5 Implementation Year</u>	<u>RU offers financial incentives?</u>	<u>No. of Loans</u>	<u>Total Amt. Loans</u>
1999	99-00	1	NO		
2000	99-00	2	NO		
2001	01-02	3	YES		
2002	01-02	4	YES		
2003	03-04	5	YES		
2004	03-04	6	YES		

<u>Report Year</u>	<u>Report Period</u>	<u>No. of Grants</u>	<u>Total Amt. Grants</u>	<u>No. of rebates</u>	<u>Total Amt. Rebates</u>
1999	99-00				
2000	99-00				
2001	01-02				
2002	01-02				
2003	03-04				
2004	03-04				

**BMP 5 COVERAGE STATUS SUMMARY:**

**Water supplier has not met one or more coverage requirements for this BMP.**

Reported as of 9/

## BMP 06 Coverage: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:

Reporting Period:

City of Poway

03-04

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one condition to comply with BMP 6.

Condition 1: Offer a cost-effective financial incentive for high-efficiency washers if one or more energy service providers in service area offer financial incentives for high-efficiency washers.

### Test for Condition 1

<u>Year</u>	<u>Report Period</u>	<u>BMP 6 Implementation Year</u>	<u>Rebate Offered by ESP?</u>	<u>Rebate Offered by RU?</u>	<u>Rebate Amount</u>
1999	99-00	1	NO	NO	
2000	99-00	2	YES	NO	100.00
2001	01-02	3	YES	YES	125.00
2002	01-02	4	YES	YES	125.00
2003	03-04	5	YES	YES	125.00
2004	03-04	6	YES	YES	125.00

<u>Year</u>	<u>Report Period</u>	<u>BMP 6 Implementation Year</u>	<u>No. Rebates Awarded</u>	<u>Coverage Met?</u>
1999	99-00	1		YES
2000	99-00	2	9	NO
2001	01-02	3	75	YES
2002	01-02	4	75	YES
2003	03-04	5	235	YES
2004	03-04	6	314	YES

### BMP 6 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

Reported as of 9/

**BMP 07 Coverage: Public Information Programs**

Reporting Unit:

Reporting Period:

**City of Poway**

**03-04**

**MOU Exhibit 1 Coverage Requirement**

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one condition to comply with BMP 7.

Condition 1: Implement and maintain a public information program consistent with BMP 7's definition.

**Test for Condition 1**

<u>Year</u>	<u>Report Period</u>	<u>BMP 7 Implementation Year</u>	<u>RU Has Public Information Program?</u>
1999	99-00	2	YES
2000	99-00	3	YES
2001	01-02	4	YES
2002	01-02	5	YES
2003	03-04	6	YES
2004	03-04	7	YES

**BMP 7 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**

Reported as of 9/

**BMP 08 Coverage: School Education Programs**

Reporting Unit:

Reporting Period:

**City of Poway**

**03-04**

**MOU Exhibit 1 Coverage Requirement**

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one condition to comply with BMP 8.

Condition 1: Implement and maintain a school education program consistent with BMP 8's definition.

**Test for Condition 1**

<u>Year</u>	<u>Report Period</u>	<u>BMP 8 Implementation Year</u>	<u>RU Has School Education Program?</u>
1999	99-00	2	NO
2000	99-00	3	NO
2001	01-02	4	YES
2002	01-02	5	YES
2003	03-04	6	YES
2004	03-04	7	YES

**BMP 8 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**

Reported as of 9/

## BMP 09 Coverage: Conservation Programs for CII Accounts

Reporting Unit:  
City of Poway

Reporting Period:  
03-04

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet three conditions to comply with BMP 9.

Condition 1: Agency has identified and ranked by use commercial, industrial, and institutional accounts.

Condition 2(a): Agency is on track to survey 10% of commercial accounts, 10% of industrial accounts, and 10% of institutional accounts within 10 years of date implementation to commence.

OR

Condition 2(b): Agency is on track to reduce CII water use by an amount equal to 10% of baseline use within 10 years of date implementation to commence.

OR

Condition 2(c): Agency is on track to meet the combined target as described in Exhibit 1 BMP 9 documentation.

#### Test for Condition 1

Year	Report Period	BMP 9 Implementation Year	Ranked Com. Use	Ranked Ind. Use	Ranked Inst. Use
1999	99-00	1	YES	YES	YES
2000	99-00	2	YES	YES	YES
2001	01-02	3	YES	YES	YES
2002	01-02	4	YES	YES	YES
2003	03-04	5	YES	YES	YES
2004	03-04	6	YES	YES	YES

#### Test for Condition 2a

	Commercial	Industrial	Institutional
Total Completed Surveys Reported through 2004			
Credit for Surveys Completed Prior to Implementation of Reporting Databases			
Total + Credit			
CII Accounts in Base Year	454	51	156
RU Survey Coverage as % of Base Year CII Accounts			
Coverage Requirement by Year 6 of Implementation per Exhibit 1	4.2%	4.2%	4.2%
RU on Schedule to Meet 10 Year Coverage Requirement	NO	NO	NO

#### Test for Condition 2a

Performance

<u>Year</u>	<u>Report Period</u>	<u>BMP 9 Implementation Year</u>	<u>Performance Target Savings (AF/yr)</u>	<u>Performance Target Savings Coverage</u>	<u>Target Savings Coverage Requirement</u>	<u>Coverage Requirement Met</u>
1999	99-00	1	5	0.1%	0.5%	NO
2000	99-00	2	6	0.2%	1.0%	NO
2001	01-02	3	10	0.3%	1.7%	NO
2002	01-02	4	10	0.3%	2.4%	NO
2003	03-04	5	12	0.3%	3.3%	NO
2004	03-04	6	24	0.6%	4.2%	NO

---

#### **Test for Condition 2c**

---

Total BMP 9 Surveys + Credit

BMP 9 Survey Coverage

BMP 9 Performance Target Coverage 0.6%

BMP 9 Survey + Performance Target Coverage 0.6%

Combined Coverage Equals or Exceeds Coverage Requirement? NO

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#### **BMP 9 COVERAGE STATUS SUMMARY:**

**Water supplier has not met one or more coverage requirements for this BMP.**

Reported as of 9/

### BMP 11 Coverage: Conservation Pricing

Reporting Unit:

**City of Poway**

Reporting Period:

**03-04**

### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one condition to comply with BMP 11.

Agency shall maintain rate structure consistent with BMP 11's definition of conservation pricing. Implementation methods shall be at least as effective as eliminating non-conserving pricing and adopting conserving pricing. For signatories supplying both water and sewer service, this BMP applies to pricing of both water and sewer service. Signatories that supply water but not sewer service shall make good faith efforts to work with sewer agencies so that those sewer agencies adopt conservation pricing for sewer service.

a) Non-conserving pricing provides no incentives to customers to reduce use. Such pricing is characterized by one or more of the following components: rates in which the unit price decreases as the quantity used increases (declining block rates); rates that involve charging customers a fixed amount per billing cycle regardless of the quantity used; pricing in which the typical bill is determined by high fixed charges and low commodity charges.

b) Conservation pricing provides incentives to customers to reduce average or peak use, or both. Such pricing includes: rates designed to recover the cost of providing service; and billing for water and sewer service based on metered water use. Conservation pricing is also characterized by one or more of the following components: rates in which the unit rate is constant regardless of the quantity used (uniform rates) or increases as the quantity used increases (increasing block rates); seasonal rates or excess-use surcharges to reduce peak demands during summer months; rates based upon the longrun marginal cost or the cost of adding the next unit of capacity to the system.

#### Test for Condition 1

<u>Year</u>	<u>Report Period</u>	<u>RU Employed Non Conserving Rate Structure</u>	<u>RU Meets BMP 11 Coverage Requirement</u>
1999	99-00	YES	NO
2000	99-00	YES	NO
2001	01-02	YES	NO
2002	01-02	YES	NO
2003	03-04	YES	NO
2004	03-04	YES	NO

#### BMP 11 COVERAGE STATUS SUMMARY:

**Water supplier has not met one or more coverage requirements for this BMP.**



## Best Management Practices Report Filing

<b>BMP 12 Coverage: Conservation Coordinator</b>
Reporting Unit: <b>City of Poway</b>

You are viewing coverage for:

**BMP 12**

**03-04**

**YRs**

DN - UP

**BMPs**

DN - UP



### MOU Exhibit 1 Coverage Requirement

No exemption request filed

Agency indicated "at least as effective as" implementation during report period? No

Agency shall staff and maintain the position of conservation coordinator and provide support staff as necessary.

### Test for Compliance

<u>Report Year</u>	<u>Report Period</u>	<u>Conservation Coordinator Position Staffed?</u>	<u>Total Staff on Team (incl. CC)</u>
1999	99-00	YES	3
2000	99-00	YES	3
2001	01-02	YES	4
2002	01-02	YES	4
2003	03-04	YES	4
2004	03-04	YES	4

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Reported as of 9/

**BMP 13 Coverage: Water Waste Prohibition**

Reporting Unit:

Reporting Period:

**City of Poway**

**03-04**

**MOU Exhibit 1 Coverage Requirement**

No exemption request filed

Agency indicated "at least as effective as" implementation during report period?

No

An agency must meet one condition to comply with BMP 13.

Implementation methods shall be enacting and enforcing measures prohibiting gutter flooding, single pass cooling systems in new connections, non-recirculating systems in all new conveyer car wash and commercial laundry systems, and non-recycling decorative water fountains.

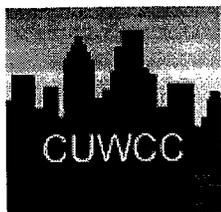
**Test for Condition 1**

**Agency or service area prohibits:**

<u>Year</u>	<u>Gutter Flooding</u>	<u>Single-Pass Cooling Systems</u>	<u>Single-Pass Car Wash</u>	<u>Single-Pass Laundry</u>	<u>Single-Pass Fountains</u>	<u>Other</u>	<u>RU has ordinance that meets coverage requirement</u>
1999	yes	yes	yes	yes	yes	no	NO
2000	yes	yes	yes	yes	yes	no	NO
2001	yes	yes	yes	yes	yes	no	YES
2002	yes	yes	yes	yes	yes	no	YES
2003	yes	yes	yes	yes	yes	no	YES
2004	yes	yes	yes	yes	yes	no	YES

**BMP 13 COVERAGE STATUS SUMMARY:**

**Water supplier is meeting coverage requirements for this BMP.**



## Best Management Practices Report Filing

### BMP 14 Coverage: Residential ULFT Replacement Programs

Reporting Unit:  
**City of Poway**



#### MOU Exhibit 1 Coverage Requirement

You are viewing coverage for:

**BMP 14**  
**03-04**

◀ **YRs** ▶  
DN - UP

◀ **BMPs** ▶  
DN - UP

**Print Report**

**Memorandum of Understanding**

**Back to Coverage Reports List**

An Reporting Unit (RU) must meet one of the following conditions to be in compliance with BMP 14.

Condition 1: Retrofit-on-resale (ROR) ordinance in effect in service area.

Condition 2: Water savings from toilet replacement programs equal to 90% of Exhibit 6 coverage requirement.

An agency with an exemption for BMP 14 is not required to meet one of the above conditions. This report treats an agency with missing base year data required to compute the Exhibit 6 coverage requirement as out of compliance with BMP 14.

<u>Coverage Year</u>	<u>BMP 14 Data Submitted to CUWCC</u>	<u>Exemption Filed with CUWCC</u>	<u>ROR Ordinance in Effect</u>	<u>Exhibit 6 Coverage Req'mt (AF)</u>	<u>Toilet Replacement Program Water Savings* (AF)</u>
1998	Yes			27.82	1044.86
1999	Yes	No	No	79.91	1245.92
2000	Yes	No	No	153.06	1453.50
2001	Yes	No	No	244.39	1662.21
2002	Yes	No	No	351.32	1879.28
2003	Yes	No	No	471.55	2105.79
2004	Yes	No	No	602.98	2341.06
2005	No	No	No	743.78	
2006	No	No	No	892.28	
2007	No	No	No	1047.01	

\*NOTE: Program water savings listed are net of the plumbing code. Savings are cumulative (not annual) between 1991 and the given year. Residential ULFT count data from unsubmitted forms are NOT included in the calculation.

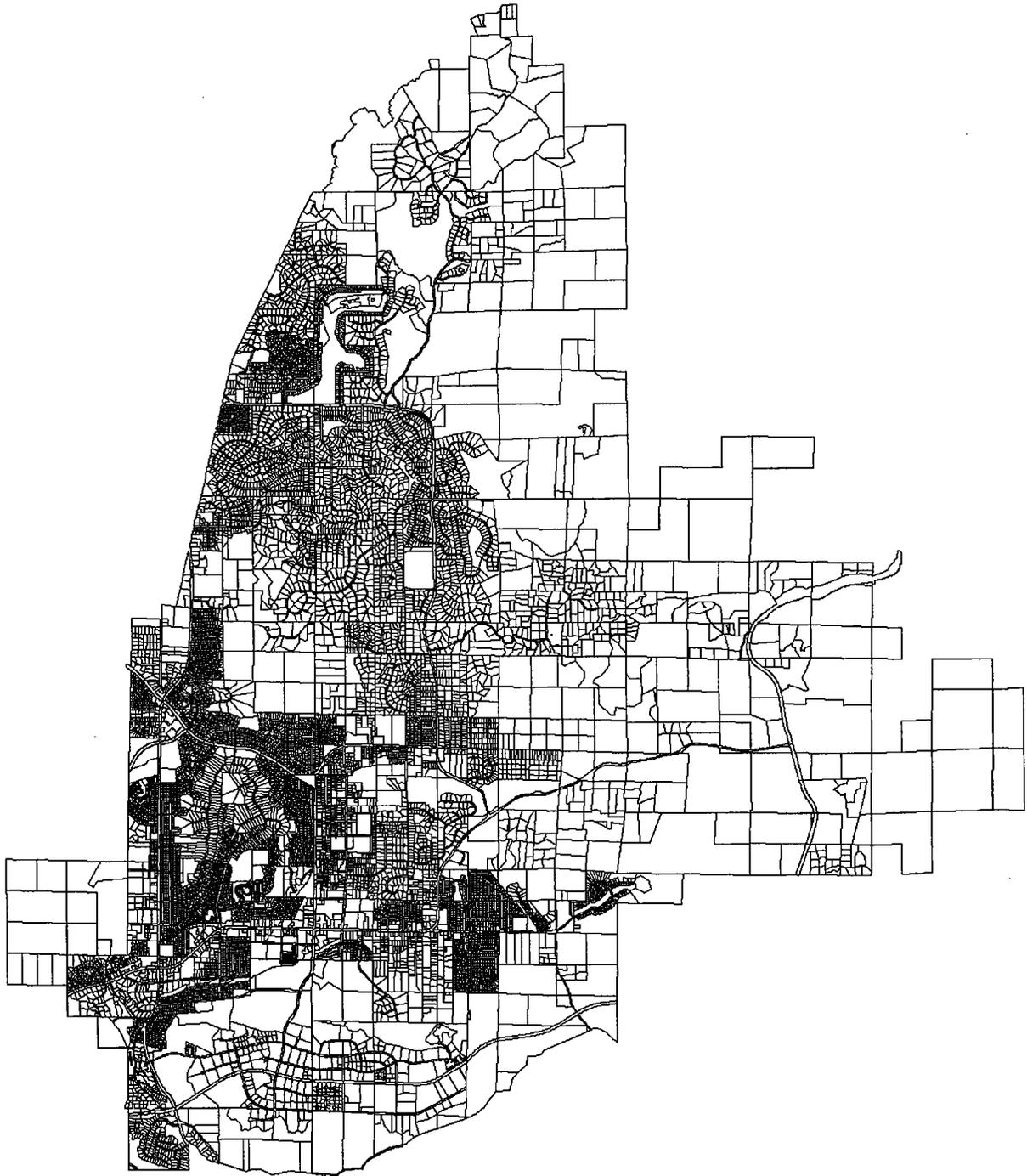
**BMP 14 COVERAGE STATUS SUMMARY as of 2004:**  
**Water supplier is meeting coverage requirements for this BMP.**

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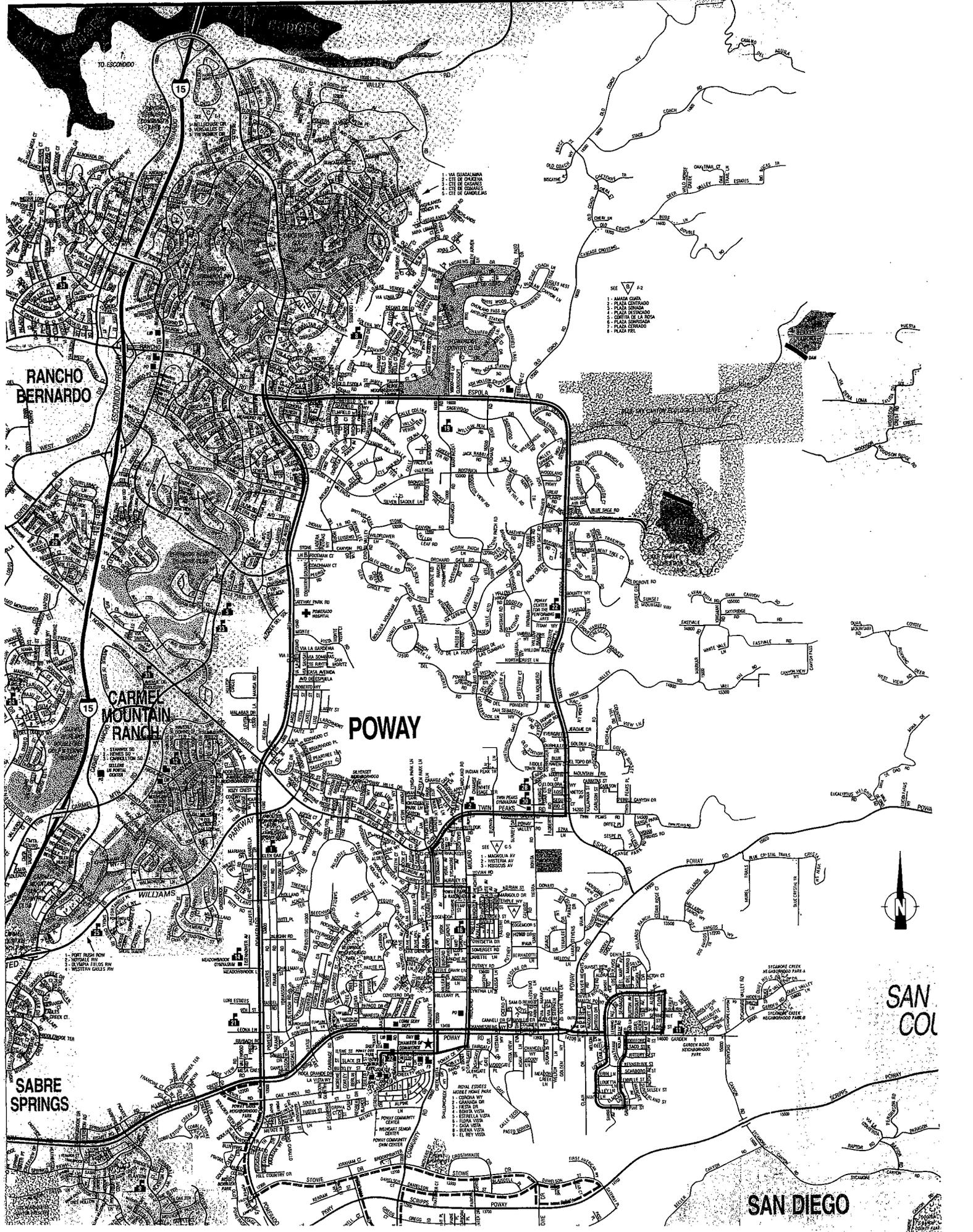
**Appendix F**

**Map of City of Poway**

# City of Poway



APPENDIX F



RANCHO BERNARDO

CARMEL MOUNTAIN RANCH

POWAY

SABRE SPRINGS

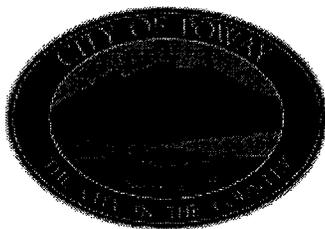


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## **Appendix G**

### **City of Poway Water Conservation Plan, Ordinance**



## POWAY MUNICIPAL CODE

## Chapter 8.94 WATER CONSERVATION PLAN

**Sections:**

- 8.94.010 Findings.
- 8.94.020 Definitions.
- 8.94.030 Water uses prohibited.
- 8.94.040 Determination and declaration of water conditions.
- 8.94.050 Duration of declaration.
- 8.94.060 Conservation stages.
- 8.94.070 Tiered water rate structure established.
- 8.94.080 Postponement of required landscaping.
- 8.94.090 Exemption and adjustments of regulations as applied.
- 8.94.100 Appeals.
- 8.94.110 Supersedure.
- 8.94.120 Enforcement actions.

**8.94.010 Findings.**

A water conservation plan will reduce the quantities of water used by the customers of the City and such a program is necessary based on any of the following findings:

- A. There is a general water supply shortage;
- B. There is limited capacity in the San Diego County Water Authority distribution facilities;
- C. The potential for a major failure of the supply and distribution facilities of the Metropolitan Water District of Southern California, the San Diego County Water Authority, or the City, exists at the present time;
- D. The conditions prevailing in the San Diego County area require that the water resources available be put to the maximum beneficial use to the extent in 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 and encouraged for benefit of the public welfare. (Ord. 408 § 1, 1993)

**8.94.020 Definitions.**

As used in this chapter:

1. "Active park and school ground areas" means those areas designated by public agencies and private schools for specific sporting and recreational activities and areas traditionally used for active play or recreation where turf is an integral part of the activity. All other turf areas shall be considered ornamental.
2. "Devices" means any method utilized to conserve potable or reclaimed water supplies or to offset existing potable or reclaimed water supplies.
3. "Fire protection" means actions for prevention or suppression of fires as directed by the Fire Marshall or Fire Prevention Officer with jurisdiction over the local area involved.

4. "Greywater" means household wastewater other than toilet water, i.e., water from the laundry, shower, tub, bathroom and kitchen sinks. The exception mentioned for greywater depends solely upon approval of such use by the San Diego County Department of Health Services.

5. "Micro irrigation systems/equipment" means low-pressure, low-volume methods of water application. These devices include drip emitters, T-tape, microsprayers, O-jets, mini-sprinklers, twirlers, and spaghetti tubing. Pop-up sprinklers are not considered low-volume, low-pressure irrigation systems/equipment.

6. "Potable water" means water delivered by the City which meets drinking water standards or raw water delivered by the San Diego County Water Authority.

7. "Reclaimed water" means water which, as a result of treatment of wastewater, is suitable for a direct beneficial use or controlled use that would not otherwise occur.

8. "Recreational and ornamental lakes and ponds" means bodies of water which are not swimming pools or water storage reservoirs for potable water or irrigation purposes.

9. "Water used for agriculture" means water used to irrigate an agricultural crop or trees. (Ord. 408 § 1, 1993)

#### **8.94.030 Water uses prohibited.**

No water 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 stages hereinafter designated, which are in effect pursuant to action taken by the City Manager or his designate in accordance with the provisions of this chapter. (Ord. 408 § 1, 1993)

#### **8.94.040 Determination and declaration of water conditions.**

The City Manager or designated representative, shall, from time to time, based upon all available data, determine and declare that the City's water supply is in one of the seven designated conservation stages as set in this chapter, post a notice thereof at the City Hall prior to the effective date of the declaration, and cause notice of said declaration to be published in a newspaper of general circulation in the City within 20 days of said posting. The City Manager's declaration shall be of no further force or effect unless, within 10 days of such declaration and posting, the City Council shall ratify said declaration in public session, without public hearing. (Ord. 408 § 1, 1993)

#### **8.94.050 Duration of declaration.**

Effective immediately, upon the declaration and posting of a designated conservation stage, the water conservation measures provided for herein for that stage shall apply to all City domestic water service, until the declaration is terminated, or a different stage is declared. Such declaration shall not apply to the use of reclaimed water, greywater, or groundwater from private wells. (Ord. 408 § 1, 1993)

#### **8.94.060 Conservation stages.**

A. Stage I. When the City's water supply has been declared to be in a Stage I condition, customers are asked to use water wisely and to practice the following water conservation measures so that water is not wasted:

1. Check plumbing and irrigation systems for leaks and repair immediately;
2. Limit shower time and install water saving showerheads;
3. Run only fully loaded dishwashers and washing machines;

4. Install a cover on residential pools and spas;
5. Wash vehicles with a bucket and/or hand-held hose with positive shutoff nozzle;
6. Reset irrigation clocks as necessary to water once a week in winter, and not more than three times a week in summer;
7. Agricultural facilities should use drip irrigation and microsprinklers for perennial crops;
8. Restaurants should serve water only upon request;
9. Use brooms to clean outdoor paved areas rather than washing down with water;
10. Car washes should use water recirculating pumps and check for leaks in system;
11. Hotels and other lodging facilities shall:
  - a. Check plumbing for leaks,
  - b. Consider replacing nonconserving toilets and showerheads.

B. Stage II. When the City Manager has declared that the City's water supply is in a Stage II condition, the following restrictions shall apply:

1. City-wide domestic water consumption shall be reduced by at least 10 percent;
2. Irrigation is not permitted during rain;
3. Lawn watering and landscape irrigation is allowed only between 6:00 p.m. and 10:00 a.m. and only when necessary;
4. There shall be no washing down of driveways, parking lots, and other paved surfaces, except for public health and safety reasons and then using a hose with positive shutoff nozzle or a high pressure, low volume cleaning system;
5. Washing of vehicles will be permitted only while using a bucket or while using a hand-held hose with a positive pressure, or a high pressure low volume car wash service;
6. Plumbing and irrigation system leaks shall be promptly repaired;
7. A customer shall not allow water to leave the property by draining to the street or adjacent property.

C. Stage III. When the City Manager has declared that the City's water supply is in a Stage III condition, in addition to all previous restrictions, the following restrictions shall apply:

1. City-wide domestic water consumption shall be reduced by 10 to 19 percent;
2. Golf courses shall not irrigate fairways and roughs with potable water more than three times a week;
3. Turf areas not actively used in nonresidential establishments shall be watered no more than three times a week;
4. Operation of ornamental fountains or similar structures is prohibited (unless water is recycled).

D. Stage IV. When the City Manager has determined that the City's water supply is in a Stage IV condition, in addition to all previous restrictions, the following restrictions shall apply:

1. City-wide potable water consumption shall be reduced by 20 to 29 percent;
2. Landscaping shall not be irrigated more than twice a week and only if necessary;
3. Potable water used for agriculture and construction shall be reduced by a minimum of 20 percent;
4. Adding water to maintain the level of water in swimming pools shall be done only when necessary. A pool cover shall be installed on all single-family residential pools;
5. New water meters shall not be issued unless no net gain in water usage is demonstrated or a water resources development fee is paid.

E. Stage V. When the City Manager has declared that the City's water supply is in a stage V condition, in addition to all previous restrictions, the following

restrictions shall apply:

1. City-wide potable water consumption shall be cut by 30 to 39 percent;
2. Watering of nonactive turf or ground cover areas may be done using a hand-held hose with a positive shutoff or micro systems/equipment during irrigation time periods or with a sprinkler system once a week, on Mondays for odd addressed properties or on Wednesdays for even addressed properties;
3. Golf courses shall irrigate fairways and roughs no more than once a week, on Fridays;
4. Potable water used for construction shall be reduced by a minimum of 30 percent;
5. Home reverse osmosis water treatment units and water softeners which discharge water, shall be turned off or disconnected;
6. Emptying and refilling of swimming pools is prohibited unless approved by the Director of Public Services for health and safety reasons.

F. Stage VI. When the City Manager has declared that the City water supply is in a Stage VI condition, in addition to all previous restrictions, the following restrictions shall apply:

1. City-wide potable water consumption shall be cut by 40 to 49 percent;
2. Outside irrigation of trees, shrubs, and other plants is allowed only between 6:00 p.m. and 10:00 a.m. and only by hand-held hose with a positive shutoff nozzle, bucket, or micro irrigation systems/equipment;
3. Irrigation with sprinkler systems will be permitted for turf and groundcover for fire protection purposes and erosion control, or once every two weeks for areas where trees and shrubs are integrated in turf or ground-cover areas;
4. Potable water used for agriculture and construction shall be reduced by a minimum of 40 percent;
5. No building permits which require new or expanded water service will be issued except to protect the public's health, safety and welfare or which meets City Council adopted conservation offset requirements.

G. Stage VII. When the City water supply has been declared to be in a Stage VII condition, the City Manager shall effect such cutbacks as necessary, to maintain adequate water supplies for public health, safety, welfare, and to comply with any declared regulatory agency requirements. In addition to all previous restrictions, the following restrictions shall apply:

1. City-wide potable water consumption shall be cut by 50 percent or more, as required;
2. Water meters shall not be issued except to protect the public's health, safety or welfare;
3. Vehicles may not be washed unless necessary for health and safety reasons;
4. Outdoor irrigation or watering is prohibited;
5. Potable water shall be reduced by 50 percent or more for agricultural or construction purposes, as determined necessary by the City Manager;
6. Sale of water to customers outside the City limits will be discontinued. (Ord. 408 § 1, 1993)

#### **8.94.070 Tiered water rate structure established.**

The water rate structure is hereby established as set forth in Resolution No. 93-040 (on file in the City Clerk's office) attached to the ordinance codified in this chapter as Exhibit 1 for all water purchased from the City. To the extent permitted by law, water rates shall be established annually by resolution. (Ord. 408 § 1, 1993)

#### **8.94.080 Postponement of required landscaping.**

The City Manager or his designee is authorized to direct developers of approved projects to postpone installation of required landscaping plant materials upon written agreement to install said improvements within six months of a change in the

designated conservation stage. The developer's condition of approval to install landscaping shall be deemed satisfied by the execution of such agreement guaranteed by cash deposit, surety bond, letter of credit, or other security in a form acceptable to the City Attorney and in an amount equal to 150 percent of the installation cost as estimated by the City Manager or his designee. (Ord. 408 § 1, 1993)

#### **8.94.090 Exemption and adjustments of regulations as applied.**

A. Exemptions. The City Manager or his designee may grant partial or complete exemptions from the water use restrictions and prohibitions set forth in PMC 8.94.060 upon a determination that the requested exemption is necessary to protect the public health, safety, or welfare.

B. Adjustments. The City Manager or his designee may grant modification or adjustment of any provision of this chapter and its attachments upon a determination that due to special circumstances, the application of the unmodified regulation constitutes a threat to health, safety, or welfare, or will result in an undue or unreasonable hardship on any person; provided, however, that such modification or adjustment shall not cause water to be wasted or used in an unreasonable manner and shall not be contrary to the purpose of this chapter.

C. Procedure. Prior to the filing of any appeal pursuant to PMC 8.94.100, any customer or other person affected by this chapter shall file a written application with the City Manager or his designee, for an exemption, modification, or adjustment of this chapter as applied to such customer or person, setting forth the special circumstances or hardship suffered by the applicant. The City Manager or his designee shall review the application and render a written decision within 10 days of the receipt of the application. The application shall be granted in whole or in part, or denied based upon the standards set forth hereinabove. (Ord. 408 § 1, 1993)

#### **8.94.100 Appeals.**

A. Appeals Board. Upon declaration of a water conservation Stage V, VI, or VII an Appeals Board shall be created consisting of a panel of five members, one nominated by each Council member and appointed by the Mayor. There is delegated to the Appeals Board, the full authority of the City Council to consider and resolve all appeals lodged by customers with the City Manager.

##### **B. Appeals Process.**

1. An appeal shall be filed in writing with the City Manager to review any action taken by the City Manager or his designee hereunder within 10 days of the date of service or mailing of the written decision made pursuant to PMC 8.94.090(C). Appeals filed late shall be denied. Appellant may appear before the Appeals Board and present such testimony and documentation considered appropriate for a proper understanding and evaluation of the claims and basis for the appeal. Such hearing shall be scheduled within 20 days of receipt of the appeal.

2. The City Manager shall present such information considered appropriate for the Appeals Board to fully comprehend all aspects relative to the decision which is the subject of the appeal.

##### **C. Appeals Board Decision.**

1. The Appeals Board shall consist of any three members of the panel. The Appeals Board shall conduct the hearing according to established fair and reasonable procedures. Basic due process shall be provided. The strict rules of evidence shall not apply.

2. The decision of the Appeals Board shall be made by a majority of the three panel members hearing the appeal. The appeal shall be granted in whole or in part, or denied, in accordance with the following standards:

- a. Protection of the public health, safety, and welfare;
- b. The existence of special circumstances creating an undue or unreasonable hardship on the appellant; provided that granting of the appeal, in

whole or in part, shall not constitute a privilege to the appellant not enjoyed by others in the same circumstances, shall not cause water to be wasted or used in an unreasonable manner, and shall not be contrary to the purpose of this chapter. (Ord. 408 § 1, 1993)

#### **8.94.110 Supersedure.**

If any provisions of this chapter are inconsistent with previous actions of the City Council pertaining to plans to respond to drought conditions, the provisions hereof shall supersede such inconsistent provisions. (Ord. 408 § 1, 1993)

#### **8.94.120 Enforcement actions.**

A. In addition to any penalty provided by law for the violation of a City ordinance, the following enforcement actions shall apply to any person, corporation, or association violating any provision of PMC 8.94.060:

1. A first or second violation shall result in a letter of warning accompanied by a copy of this chapter.

2. A third violation within a 12-month period shall result in a \$50.00 surcharge which will be added to the water bill.

3. A fourth violation within a 12-month period shall result in a citation with a \$100.00 fine.

4. Any subsequent violation occurring within one year of any fourth violation shall result in a \$200.00 surcharge and the installation of a flow restrictor, until the sunset of this ordinance.

5. Any further violation shall result in the water service being turned off.

B. The City Manager or his designee, shall determine if and when violations occurred. Any person disagreeing with the notice of violation may appeal in accordance with PMC 8.94.090 and 8.94.100 hereafter by written notice received by the City within 10 days of the date of notice of violation. Any notice of violation not timely appealed, shall be final. Pending any appeal provided for herein, the City Manager or his designee may take appropriate steps to prevent the unauthorized use of water as appropriate to the nature and extent of the violation and the current declared water condition.

C. Any surcharge hereunder shall be in addition to the basic water rates or other charges of the City for the account, shall appear on and be payable with the first billing statement for the period during which the violation occurred, and be subject to the same remedies that are imposed by the City for the failure to pay other charges.

D. In addition to any surcharges mentioned above, all costs for installing or removing any flow restrictor devices and/or disconnecting or connecting service, shall be the sole cost of the customer whose service is affected and shall be paid promptly upon being billed. (Ord. 408 § 1, 1993)



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**Appendix H**  
**City of Poway Demographics**

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- [Retail](#)
- [Demographics](#)
- [Location](#)
- [Education](#)
- [What's New](#)
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- [City Web Site](#)

# Demographics



Poway is a family-oriented community with a population of 50,632 and a land area of 39.2 square miles. The median household income of \$77,965 ranks second in San Diego County.

Population: 50,632

Age:

- Median Age: 36.6 years
- By Age Group:
  - 0-17 27.3%
  - 18-34 19.8%
  - 35-59 39.7%
  - 60+ 13.2%

Ethnic Breakdown:

- White 75%
- Hispanic 11.9%
- Asian/Other 7.9%
- Black 1.7%

College Education:

- Some/no degree 27%
- Associate degree 9%
- Bachelor degree 25%
- Graduate/PhD 15%

Household Income:

- Median Income \$77,965
- Less than \$10,000 3%
- \$10,000 to 19,999 6%
- \$20,000 to 29,999 7%
- \$30,000 to 39,999 8%
- \$40,000 to 49,999 9%
- \$50,000 to 74,999 20%
- \$75,000 to 99,999 15%
- \$100,000 or more 21%

Housing

- Housing Units 16,352
- Persons per Household 3.12

Population

1990	43,933
1999	48,393
2000*	49,581
2010*	52,987
2015*	54,966

\*estimated

Sales Tax

1995	\$3,639,756
1996	\$3,696,899
1997	\$4,149,019
1998	\$4,902,359
1999	\$5,714,050

Commercial Property Values

1995	\$76,590,235
1996	\$85,193,678
1997	\$87,641,025
1998	\$88,447,865
1999	\$118,083,485

Residential Property Values

1995	\$3,085,143,929
1996	\$3,130,596,779
1997	\$3,123,520,296
1998	\$3,206,158,747
1999	\$3,427,371,909

Bank Deposits

1995	\$121,516,477
1996	\$122,745,369
1997	\$136,217,918
1998	\$199,549,791
1999	\$250,542,833

Median Single Family Home      \$583,536

Major Employers

◦ <u>Poway School District</u>	3,300
<u>GEICO Direct</u>	1,900
<u>First American Credco</u>	750
<u>Pomerado Hospital</u>	700
<u>HNR Framing</u>	700
<u>Neal Electric</u>	400
<u>Hunter-Douglas</u>	350
<u>APW Solutions</u>	300
<u>Sysco Foods</u>	300
<u>City of Poway</u>	300

**SANDAG 2030 Forecast Breakdown for the  
City of Poway**

SANDAG Forecast Variables	2005	2010	2015	2020	2025	2030
Population	50,440	51,814	53,144	54,468	55,009	56,078
Single Family Households (occupied units)	12,775	13,030	13,160	13,228	13,368	13,382
Multi-Family Households (occupied units)	2,463	2,668	2,732	2,788	2,822	2,837
Mobile Home Households (occupied units)	695	699	705	714	731	743
Median Household Income <sup>1</sup>	\$68,192	\$68,171	\$70,152	\$74,297	\$79,293	\$85,949
Civilian Employment	23,748	26,401	29,013	31,578	34,277	35,020
Military Employment	0	0	0	0	0	0
Agricultural Employment	73	73	73	73	73	73
Construction Employment	3,313	3,244	3,258	3,311	3,056	3,128
Manufacturing Employment	2,559	2,627	2,637	2,643	2,682	2,697
Transportation, Communications & Utilities Employment	535	649	726	809	940	986
Wholesale Trade Employment	902	1,077	1,263	1,450	1,669	1,721
Retail Trade Employment	3,813	4,270	4,780	5,301	5,998	6,123
Finance, Insurance & Real Estate Employment	507	717	924	1,122	1,346	1,383
Services Employment	7,353	8,575	9,766	10,876	12,176	12,488
Government Employment	2,647	2,964	3,207	3,457	3,637	3,682
Self-employed and Domestic Workers Employment	2,046	2,205	2,379	2,536	2,700	2,739
Acres	23,795	23,795	23,795	23,795	23,795	23,795
Developed Acres	14,242	14,987	15,820	16,449	16,781	16,846
Vacant (developable) acres	2,851	2,107	1,273	644	313	247
Unusable (constrained) acres	6,702	6,702	6,702	6,702	6,702	6,702
Irrigated Agricultural Acreage <sup>2</sup>	789	689	481	386	235	230

**Five Year Incremental Differences**

	2005 - 2010	2010 - 2015	2015 - 2020	2020 - 2025	2025 - 2030
Population	1,374	1,330	1,324	541	1,069
Single Family Households (occupied units)	255	130	68	140	14
Multi-Family Households (occupied units)	205	64	56	34	15
Mobile Home Households (occupied units)	4	6	9	17	12
Median Household Income <sup>1</sup>	-\$21	\$1,981	\$4,145	\$4,996	\$6,656
Civilian Employment	2,653	2,612	2,565	2,699	743
Military Employment	0	0	0	0	0
Agricultural Employment	0	0	0	0	0
Construction Employment	-69	14	53	-255	72
Manufacturing Employment	68	10	6	39	15
Transportation, Communications & Utilities Employment	114	77	83	131	46
Wholesale Trade Employment	175	186	187	219	52
Retail Trade Employment	457	510	521	697	125
Finance, Insurance & Real Estate Employment	210	207	198	224	37
Services Employment	1,222	1,191	1,110	1,300	312
Government Employment	317	243	250	180	45
Self-employed and Domestic Workers Employment	159	174	157	164	39
Acres	0	0	0	0	0
Developed Acres	745	833	629	332	65
Vacant (developable) acres	-744	-834	-629	-331	-66
Unusable (constrained) acres	0	0	0	0	0
Irrigated Agricultural Acreage <sup>2</sup>	-100	-208	-95	-151	-5

**Footnotes:**

- Listed in constant year 1999 dollars
- Includes agricultural lands identified for redevelopment

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<a href="#">Education</a>
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<a href="#">Contacts</a>
<a href="#">City Web Site</a>

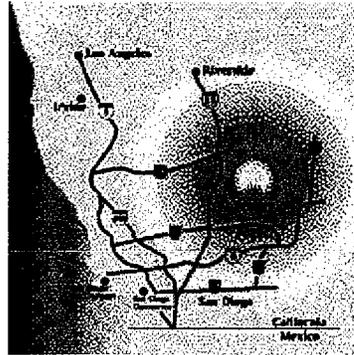
# Location

Poway is strategically located in the center of San Diego County. Just east of Interstate 15, about 20 miles northeast of downtown San Diego, Poway offers convenient freeway access to Riverside, Orange, and Los Angeles Counties, as well as to Mexico. The six-lane Scripps Poway Parkway links the business complex to major transportation arteries.

Commuter express bus services between Poway and downtown San Diego operate regularly, and shuttle buses furnish accessible transportation in and around Poway. Air transportation services are also available.

Elevations ranging from 450 to 2,250 feet above sea level afford spectacular views of scenic hills, canyons, and the ocean.

Temperatures average 72 degrees year-round with low humidity and regular marine breezes.



## **Appendix I**

### **SDCWA & MWD Supply Projections**

**MEMORANDUM**

December 1, 2005

TO: Member Agency Managers

FROM: Ken Weinberg, Director of Water Resources *KW*

RE: Information on Water Authority Supplies included in 2005 Urban Water Management Plan as required under California Water Code Section 10631 (k)

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The purpose of this memorandum is to address California Water Code Section 10631 (k) of the Urban Water Management Planning Act (Act). This section requires the exchange of supply and demand information between the wholesale agency and its member agencies. The Water Authority is to provide information that identifies and quantifies, to the extent practicable, the existing and planned sources of water available from the Water Authority under multiple dry-year, single dry-year, and average year conditions, in five-year increments for the 20-year term required under the Act.

This supply information is included in the Water Authority's 2005 Urban Water Management Plan (2005 Plan), adopted on November 17, 2005. A copy of the 2005 Plan is attached. The Water Authority's supplies include deliveries from the Metropolitan Water District (Metropolitan). Documentation on Metropolitan's supplies is included in its 2005 Regional Urban Water Management Plan, adopted on November 8, 2005. In addition, attached is a memorandum from Metropolitan, which contains supply reliability tables documenting long-term reliability, consistent with requirements of the Act. As stated in Section 8 of the Water Authority's 2005 Plan, if the projected Water Authority and member agency supplies are developed as planned, along with implementation of Metropolitan's Integrated Resources Plan, no shortages are anticipated within the Water Authority's service area under normal, single dry-year, or multiple dry-water years through 2030.

Member agency input into development of the Water Authority's 2005 Plan was critical to its preparation and ultimate adoption by the Board. The Water Authority would like to thank its member agencies for their assistance and input during this yearlong process. The table below summarizes the activities that occurred between our agencies during this effort:

Date	Water Authority Activities
September 2004	Presented to member agencies an overview of CWA-MAIN Model used to develop regional water demand forecast.
October 2004	Held kick-off meeting with agencies to initiate update of local supply and conservation projections.
February 2005	Hosted DWR Workshop on plan preparation and additional review of local supply and conservation projections.
March – April 2005	Met individually with several member agencies on draft preliminary demand forecast and local supply and conservation projections.
May 2005	Distributed preliminary water demand forecast to member agencies. Forecast included demands on the Water Authority by member agency.
May 2005	Hosted member agency meeting to review preparation of Metropolitan's 2005 RUWMP and discuss additional coordination issues.
June 2005	Held technical meeting with member agencies to review water demand forecast.
September 2005	Distributed updated water demand forecast that was revised based on member agency input.
September 2005	Distributed member agency draft 2005 Plan for member agency technical review.
October 2005	Addressed member agencies' comments in public review draft of 2005 Plan that was distributed to Board members and made available to public.
November 2005	Water Authority's 2005 Plan adopted by Board.

In addition to preparation of the urban water management plan every five years, the Water Authority prepares an annual water supply report that documents implementation of the Water Authority's planned supply projects and programs. This report is prepared in accordance with subdivision (a) of Section 8.00.050 of the Water Authority's Administrative Code, which states: "The General Manager shall provide each Authority member agency and the County of San Diego and each city in the County of San Diego with a copy of the Authority's most recently adopted Urban Water Management Plan and an annual statement regarding the Authority's water supplies and implementation of Authority's plans and programs to meet the future water supply requirements of its member agencies as determined by the Authority pursuant to law and the memorandum of agreement between the Authority and the San Diego Association of Governments." Staff anticipates preparing the next annual report towards the end of 2006 and will provide the document following its approval by the Water Authority's Board of Directors.

Thank you again for your assistance in preparation of the Water Authority's 2005 Plan. Please contact Dana Frieauf, Principal Water Resources Specialist, at [dfrieauf@sdcwa.org](mailto:dfrieauf@sdcwa.org) or 858-522-6749, if you have any questions on the information provided in this memorandum.

Attachments



**MWD**  
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

**Date:** August 18, 2005  
**To:** Urban Water Management Plan Coordinators  
**From:** Michael Hurley, Water Resource Management Group  
**Subject:** Reliability Tables for the 2005 RUWMP

California Water Code §10631 of the Urban Water Management Planning Act (Act) requires wholesale water agencies to provide urban water suppliers that rely upon that wholesale agency information that identifies and quantifies, to the extent practicable, the existing and planned sources of water available from the wholesale agency under multiple dry-year, single dry-year and average year conditions, in five-year increments for the 20-year term required under the Act

Attached are the final draft reliability tables documenting Metropolitan's long-term reliability consistent with the requirements of the Act. The tables show supplies and demands under multiple dry-year, single dry-year and average year conditions. Also included are the existing and planned supplies from In-basin, California Aqueduct and Colorado River Aqueduct sources used to develop the reliability tables.

Additionally, I've attached a slightly revised draft data set at the regional level based on comments regarding local supplies from some of the member agencies.

If you have any questions or comments, please contact me at (213) 217-6221 or [mhurley@mwdh2o.com](mailto:mhurley@mwdh2o.com).

**In Basin Storage Activities**  
**Program Capabilities**  
**Year 2010**  
 (acre-feet per year)

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
Metropolitan Surface Storage	297,500	510,000	0
(DVL, Mathews, Skinner)			
Flexible Storage in Castaic & Perris	73,000	219,000	0
Groundwater Conjunctive-use			
North Las Posas Storage	47,000	47,000	0
Prop 13 Storage	64,000	64,000	0
<b>Subtotal of Current Programs</b>	<b>481,500</b>	<b>840,000</b>	<b>0</b>
<b>Programs Under Development</b>			
Groundwater Conjunctive-use			
Raymond Basin	22,000	22,000	0
Prop 13 Storage Programs	1,000	1,000	0
Additional Programs <sup>1</sup>	55,000	55,000	0
<b>Subtotal of Proposed Programs</b>	<b>78,000</b>	<b>78,000</b>	<b>0</b>
<b>Maximum Supply Capability</b>	<b>559,500</b>	<b>918,000</b>	<b>0</b>

<sup>1</sup> Includes expansions of existing programs

**In Basin Storage Activities**  
**Program Capabilities**  
**Year 2015**  
**(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
Metropolitan Surface Storage (DVL, Mathews, Skinner)	296,200	507,800	0
Flexible Storage in Castaic & Perris	73,000	219,000	0
Groundwater Conjunctive-use	47,000	47,000	0
North Las Posas Storage	64,000	64,000	0
Prop 13 Storage	<b>480,200</b>	<b>837,800</b>	<b>0</b>
<b>Subtotal of Current Programs</b>			
<b>Programs Under Development</b>			
Groundwater Conjunctive-use	22,000	22,000	0
Raymond Basin	1,000	1,000	0
Prop 13 Storage Programs	80,000	80,000	0
Additional Programs <sup>1</sup>	<b>103,000</b>	<b>103,000</b>	<b>0</b>
<b>Subtotal of Proposed Programs</b>			
<b>Maximum Supply Capability</b>	<b>583,200</b>	<b>940,800</b>	<b>0</b>

<sup>1</sup> Includes expansions of existing programs

**In Basin Storage Activities**  
**Program Capabilities**  
**Year 2020**  
**(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
Metropolitan Surface Storage (DVL, Mathews, Skinner)	278,800	477,900	0
Flexible Storage in Castaic & Perris Groundwater Conjunctive-use	73,000	219,000	0
North Las Posas Storage Prop 13 Storage	47,000 64,000	47,000 64,000	0 0
<b>Subtotal of Current Programs</b>	<b>462,800</b>	<b>807,900</b>	<b>0</b>
<b>Programs Under Development</b>			
Groundwater Conjunctive-use Raymond Basin Prop 13 Storage Programs Additional Programs <sup>1</sup>	22,000 1,000 80,000	22,000 1,000 80,000	0 0 0
<b>Subtotal of Proposed Programs</b>	<b>103,000</b>	<b>103,000</b>	<b>0</b>
<b>Maximum Supply Capability</b>	<b>565,800</b>	<b>910,900</b>	<b>0</b>

<sup>1</sup> Includes expansions of existing programs

**In Basin Storage Activities  
Program Capabilities  
Year 2025  
(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
Metropolitan Surface Storage (DVL, Mathews, Skinner)	265,000	454,300	0
Flexible Storage in Castaic & Perris	73,000	219,000	0
Groundwater Conjunctive-use	47,000	47,000	0
North Las Posas Storage	64,000	64,000	0
Prop 13 Storage	449,000	784,300	0
<b>Subtotal of Current Programs</b>			
<b>Programs Under Development</b>			
Groundwater Conjunctive-use	22,000	22,000	0
Raymond Basin	1,000	1,000	0
Prop 13 Storage Programs <sup>1</sup>	80,000	80,000	0
<b>Subtotal of Proposed Programs</b>	<b>103,000</b>	<b>103,000</b>	<b>0</b>
<b>Maximum Supply Capability</b>	<b>552,000</b>	<b>887,300</b>	<b>0</b>

<sup>1</sup> Includes expansions of existing programs

**In Basin Storage Activities**  
**Program Capabilities**  
 Year 2030  
 (acre-feet per year)

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
Metropolitan Surface Storage (DVL, Mathews, Skinner)	265,000	454,300	0
Flexible Storage in Castaic & Perris	73,000	219,000	0
Groundwater Conjunctive-use	47,000	47,000	0
North Las Posas Storage	64,000	64,000	0
Prop 13 Storage	449,000	784,300	0
<b>Subtotal of Current Programs</b>			
<b>Programs Under Development</b>			
Groundwater Conjunctive-use	22,000	22,000	0
Raymond Basin	1,000	1,000	0
Prop 13 Storage Programs	80,000	80,000	0
Additional Programs <sup>1</sup>	103,000	103,000	0
<b>Subtotal of Proposed Programs</b>			
<b>Maximum Supply Capability</b>	<b>552,000</b>	<b>887,300</b>	<b>0</b>

<sup>1</sup> Includes expansions of existing programs and North Las Posas Phase 3

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California Aqueduct  
Program Capabilities  
Year 2010  
(acre-feet per year)

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
SWP Deliveries <sup>1,2</sup>	509,000	175,000	1,472,000
San Luis Carryover <sup>3</sup>	93,000	280,000	280,000
SWP Call-back of DWCV Table A Transfer	25,600	5,000	0
Central Valley Storage and Transfers			
Semitropic Program	107,000	107,000	0
Arvin Edison Program	90,000	90,000	0
San Bernardino Valley MWD Program	37,000	70,000	20,000
Kern Delta Program	50,000	50,000	0
<b>Subtotal of Current Programs</b>	<b>911,600</b>	<b>777,000</b>	<b>1,772,000</b>
<b>Programs Under Development</b>			
Delta Improvements <sup>4</sup>	55,000	55,000	185,000
Market Transfer Options	150,000	150,000	0
Central Valley Transfers/Purchases	125,000	125,000	0
Mojave Program	0	0	0
<b>Subtotal of Proposed Programs</b>	<b>330,000</b>	<b>330,000</b>	<b>185,000</b>
<b>Maximum Supply Capability</b>	<b>1,241,600</b>	<b>1,107,000</b>	<b>1,957,000</b>

<sup>1</sup> Single Dry-year figure includes 76 TAF of additional SWP supplies in 1977 per DWR

<sup>2</sup> Multiple and Single Dry year figures include DWCV Table A supplies

<sup>3</sup> Includes DWCV carryover

<sup>4</sup> Includes Phase 8 and increased pumping capacity

**California Aqueduct  
Program Capabilities  
Year 2015  
(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Program</b>			
SWP Deliveries <sup>1,2</sup>	509,000	175,000	1,472,000
San Luis Carryover <sup>3</sup>	93,000	280,000	280,000
SWP Call-back of DWCV Table A Transfer	25,600	5,000	0
Central Valley Storage and Transfers			
Semitropic Program	107,000	107,000	0
Arvin Edison Program	90,000	90,000	0
San Bernardino Valley MWD Program	37,000	70,000	20,000
Kern Delta Program	50,000	50,000	0
<b>Subtotal of Current Programs</b>	<b>911,600</b>	<b>777,000</b>	<b>1,772,000</b>
<b>Programs Under Development</b>			
Delta Improvements <sup>4</sup>	55,000	55,000	185,000
Market Transfer Options	0	0	0
Central Valley Transfers/Purchases	125,000	125,000	0
Mojave Program	34,500	34,500	0
<b>Subtotal of Proposed Programs</b>	<b>214,500</b>	<b>214,500</b>	<b>185,000</b>
<b>Maximum Supply Capability</b>	<b>1,126,100</b>	<b>991,500</b>	<b>1,957,000</b>

<sup>1</sup> Single Dry-year figure includes 76 TAF of additional SWP supplies in 1977 per DWR

<sup>2</sup> Multiple and Single Dry year figures include DWCV Table A supplies

<sup>3</sup> Includes DWCV carryover

<sup>4</sup> Includes Phase 8 and increased pumping capacity

**California Aqueduct  
Program Capabilities  
Year 2020  
(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs<sup>1,2</sup></b>			
SWP Deliveries <sup>1,2</sup>	509,000	175,000	1,472,000
San Luis Carryover <sup>3</sup>	93,000	280,000	280,000
SWP Call-back of DWCV Table A Transfer	25,600	5,000	
Central Valley Storage and Transfers			
Semitropic Program	107,000	107,000	0
Arvin Edison Program	90,000	90,000	0
San Bernardino Valley MWD Program	37,000	70,000	20,000
Kern Delta Program	50,000	50,000	0
<b>Subtotal of Current Programs</b>	<b>911,600</b>	<b>777,000</b>	<b>1,772,000</b>
<b>Programs Under Development</b>			
Delta Improvements <sup>4</sup>	110,000	110,000	240,000
Market Transfer Options	0	0	0
Central Valley Transfers/Purchases	125,000	125,000	0
Mojave Program	34,500	34,500	0
<b>Subtotal of Proposed Programs</b>	<b>269,500</b>	<b>269,500</b>	<b>240,000</b>
<b>Maximum Supply Capability</b>	<b>1,181,100</b>	<b>1,046,500</b>	<b>2,012,000</b>

<sup>1</sup> Single Dry-year figure includes 76 TAF of additional SWP supplies in 1977 per DWR

<sup>2</sup> Multiple and Single Dry year figures include DWCV Table A supplies

<sup>3</sup> Includes DWCV carryover

<sup>4</sup> Includes Phase 8 and increased pumping capacity

**California Aqueduct  
Program Capabilities  
Year 2025  
(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs<sup>1,2</sup></b>			
SWP Deliveries	509,000	175,000	1,472,000
San Luis Carryover <sup>3</sup>	93,000	280,000	280,000
SWP Call-back of DWCV Table A Transfer	25,600	5,000	0
Central Valley Storage and Transfers			
Semitropic Program	107,000	107,000	0
Arvin Edison Program	90,000	90,000	0
San Bernardino Valley MWD Program	37,000	70,000	20,000
Kern Delta Program	50,000	50,000	0
<b>Subtotal of Current Programs</b>	<b>911,600</b>	<b>777,000</b>	<b>1,772,000</b>
<b>Programs Under Development</b>			
Delta Improvements <sup>4</sup>	110,000	110,000	240,000
Market Transfer Options	0	0	0
Central Valley Transfers/Purchases	125,000	125,000	0
Mojave Program	34,500	34,500	0
<b>Subtotal of Proposed Programs</b>	<b>269,500</b>	<b>269,500</b>	<b>240,000</b>
<b>Maximum Supply Capability</b>	<b>1,181,100</b>	<b>1,046,500</b>	<b>2,012,000</b>

<sup>1</sup> Single Dry-year figure includes 76 TAF of additional SWP supplies in 1977 per DWR

<sup>2</sup> Multiple and Single Dry year figures include DWCV Table A supplies

<sup>3</sup> Includes DWCV carryover

<sup>4</sup> Includes Phase 8 and increased pumping capacity

**California Aqueduct  
Program Capabilities  
Year 2030  
(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
SWP Deliveries <sup>1,2</sup>	509,000	175,000	1,472,000
San Luis Carryover <sup>3</sup>	93,000	280,000	280,000
SWP Call-back of DWCV Table A Transfer	25,600	5,000	0
Central Valley Storage and Transfers			
Semitropic Program	107,000	107,000	0
Arvin Edison Program	90,000	90,000	0
San Bernardino Valley MWD Program	37,000	70,000	20,000
Kern Delta Program	50,000	50,000	0
<b>Subtotal of Current Programs</b>	<b>911,600</b>	<b>777,000</b>	<b>1,772,000</b>
<b>Programs Under Development</b>			
Delta Improvements <sup>4</sup>	110,000	110,000	240,000
Market Transfer Options	0	0	0
Central Valley Transfers/Purchases	125,000	125,000	0
Mojave Program	34,500	34,500	0
<b>Subtotal of Proposed Programs</b>	<b>269,500</b>	<b>269,500</b>	<b>240,000</b>
<b>Maximum Supply Capability</b>	<b>1,181,100</b>	<b>1,046,500</b>	<b>2,012,000</b>

<sup>1</sup> Single Dry-year figure includes 76 TAF of additional SWP supplies in 1977 per DWR

<sup>2</sup> Multiple and Single Dry year figures include DWCV Table A supplies

<sup>3</sup> Includes DWCV carryover

<sup>4</sup> Includes Phase 8 and increased pumping capacity

**Colorado River Aqueduct  
Program Capabilities  
Year 2010  
(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
Base Apportionment – Priority 4	526,000	526,000	526,000
IID/MWD Conservation Program	85,000	85,000	85,000
Priority 5 Apportionment	0	0	30,000
PVID Land Management Program	111,000	111,000	70,000
<b>Subtotal of Current Programs</b>	<b>722,000</b>	<b>722,000</b>	<b>711,000</b>
<b>Programs Under Development</b>			
Hayfield Storage Program	0	0	0
Lower Coachella Storage Program	0	0	0
Chuckwalla Storage Program	0	0	0
Salton Sea Restoration Transfer	95,000	95,000	0
<b>Subtotal of Proposed Programs</b>	<b>95,000</b>	<b>95,000</b>	<b>0</b>
Less: Coachella SWP/QSA Transfer	0	0	0
<b>Maximum Metropolitan Supply Capability</b>	<b>817,000</b>	<b>817,000</b>	<b>711,000</b>
<b>Additional Non-Metropolitan RA Supply</b>			
SDCWA/IID Transfer	60,000	70,000	70,000
Coachella & All-American Canals Lining	93,700	93,700	93,700
<b>Maximum CRA Supply Capability</b>	<b>970,700</b>	<b>980,700</b>	<b>874,700</b>
<b>Maximum Expected CRA Deliveries</b>	<b>970,700</b>	<b>980,700</b>	<b>874,700</b>

**Colorado River Aqueduct  
Program Capabilities  
Year 2015  
(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
Base Apportionment - Priority 4	503,000	503,000	503,000
IID/MWD Conservation Program	85,000	85,000	85,000
Priority 5 Apportionment	0	0	20,000
PVID Land Management Program	111,000	111,000	70,000
<b>Subtotal of Current Programs</b>	<b>699,000</b>	<b>699,000</b>	<b>678,000</b>
<b>Programs Under Development</b>			
Hayfield Storage Program	100,000	100,000	0
Lower Coachella Storage Program	150,000	150,000	0
Chuckwalla Storage Program	0	0	0
Salton Sea Restoration Transfer	210,000	210,000	0
<b>Subtotal of Proposed Programs</b>	<b>460,000</b>	<b>460,000</b>	<b>0</b>
Less: Coachella SWP/QSA Transfer	(35,000)	(35,000)	(35,000)
<b>Maximum Metropolitan Supply Capability</b>	<b>1,124,000</b>	<b>1,124,000</b>	<b>643,000</b>
<b>Additional Non-Metropolitan Supply</b>			
SDCWA/IID Transfer	100,000	100,000	100,000
Coachella & All-American Canals Lining	93,700	93,700	93,700
<b>Maximum CRA Supply Capability</b>	<b>1,317,700</b>	<b>1,317,700</b>	<b>836,700</b>
<b>Maximum Expected CRA Deliveries</b>	<b>1,250,000</b>	<b>1,250,000</b>	<b>836,700</b>

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**Colorado River Aqueduct**  
**Program Capabilities**  
**Year 2020**  
**(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
Base Apportionment – Priority 4	503,000	503,000	503,000
IID/MWD Conservation Program	85,000	85,000	85,000
Priority 5 Apportionment	0	0	19,000
PVID Land Management Program	111,000	111,000	70,000
<b>Subtotal of Current Programs</b>	<b>699,000</b>	<b>699,000</b>	<b>677,000</b>
<b>Programs Under Development</b>			
Hayfield Storage Program	100,000	100,000	0
Lower Coachella Storage Program	150,000	150,000	0
Chuckwalla Storage Program	150,000	150,000	0
Salton Sea Restoration Transfer	0	0	0
<b>Subtotal of Proposed Programs</b>	<b>400,000</b>	<b>400,000</b>	<b>0</b>
Less: Coachella SWP/QSA Transfer	(35,000)	(35,000)	(35,000)
<b>Maximum Metropolitan Supply Capability</b>	<b>1,064,000</b>	<b>1,064,000</b>	<b>642,000</b>
<b>Additional Non-Metropolitan CRA Supply</b>			
SDCWA/IID Transfer	192,500	192,500	192,500
Coachella & All-American Canals Lining	93,700	93,700	93,700
<b>Maximum CRA Supply Capability</b>	<b>1,350,200</b>	<b>1,350,200</b>	<b>928,200</b>
<b>Maximum Expected CRA Deliveries</b>	<b>1,250,000</b>	<b>1,250,000</b>	<b>928,200</b>

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Colorado River Aqueduct  
 Program Capabilities  
 Year 2025  
 (acre-feet per year)

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
Base Apportionment – Priority 4	503,000	503,000	503,000
IID/MWD Conservation Program	85,000	85,000	85,000
Priority 5 Apportionment	0	0	19,000
PVID Land Management Program	111,000	111,000	70,000
<b>Subtotal of Current Programs</b>	<b>699,000</b>	<b>699,000</b>	<b>677,000</b>
<b>Programs Under Development</b>			
Hayfield Storage Program	100,000	100,000	0
Lower Coachella Storage Program	150,000	150,000	0
Chuckwalla Storage Program	150,000	150,000	0
Salton Sea Restoration Transfer	0	0	0
<b>Subtotal of Proposed Programs</b>	<b>400,000</b>	<b>400,000</b>	<b>0</b>
Less: Coachella SWP/QSA Transfer	(35,000)	(35,000)	(35,000)
<b>Maximum Metropolitan Supply Capability</b>	<b>1,064,000</b>	<b>1,064,000</b>	<b>642,000</b>
<b>Additional Non-Metropolitan CR Supply</b>			
SDCWA/IID Transfer	200,000	200,000	200,000
Coachella & All-American Canals Lining	93,700	93,700	93,700
<b>Maximum CRA Supply Capability</b>	<b>1,357,700</b>	<b>1,357,700</b>	<b>935,700</b>
<b>Maximum Expected CRA Deliveries</b>	<b>1,250,000</b>	<b>1,250,000</b>	<b>935,700</b>

**Colorado River Aqueduct  
Program Capabilities  
Year 2030  
(acre-feet per year)**

Hydrology	Multiple Dry Years (1990-92)	Single Dry Year (1977)	Average Year (1922-2004)
<b>Current Programs</b>			
Base Apportionment - Priority 4	503,000	503,000	503,000
IID/MWD Conservation Program	85,000	85,000	85,000
Priority 5 Apportionment	0	0	19,000
PVID Land Management Program	111,000	111,000	70,000
<b>Subtotal of Current Programs</b>	<b>699,000</b>	<b>699,000</b>	<b>677,000</b>
<b>Programs Under Development</b>			
Hayfield Storage Program	100,000	100,000	0
Lower Coachella Storage Program	150,000	150,000	0
Chuckwalla Storage Program	150,000	150,000	0
Salton Sea Restoration Transfer	0	0	0
<b>Subtotal of Proposed Programs</b>	<b>400,000</b>	<b>400,000</b>	<b>0</b>
Less: Coachella SWP/QSA Transfer	(35,000)	(35,000)	(35,000)
<b>Maximum Metropolitan Supply Capability</b>	<b>1,064,000</b>	<b>1,064,000</b>	<b>642,000</b>
<b>Additional Non-Metropolitan Re-Supply</b>			
SDCWA/IID Transfer	200,000	200,000	200,000
Coachella & All-American Canals Lining	93,700	93,700	93,700
<b>Maximum CRA Supply Capability</b>	<b>1,357,700</b>	<b>1,357,700</b>	<b>935,700</b>
<b>Maximum Expected CRA Deliveries</b>	<b>1,250,000</b>	<b>1,250,000</b>	<b>935,700</b>

FINAL DRAFT

**Multiple Dry-year Supply Capability<sup>1</sup> & Projected Demands**

(Repeat of 1990-92 Hydrology)  
(acre-feet per year)

	2010	2015	2020	2025	2030
<b>Current Supplies</b>					
Colorado River Aqueduct <sup>2</sup>	722,000	699,000	699,000	699,000	699,000
California Aqueduct <sup>3</sup>	911,600	911,600	911,600	911,600	911,600
In-Basin Storage	481,500	480,200	462,800	449,000	449,000
<b>Supplies Under Development</b>					
Colorado River Aqueduct	95,000	460,000	400,000	400,000	400,000
California Aqueduct	330,000	214,500	269,500	269,500	269,500
In-Basin Storage	78,000	103,000	103,000	103,000	103,000
Transfers to Other Agencies	0	(35,000)	(35,000)	(35,000)	(35,000)
<b>Metropolitan Supply Capability</b>	<b>2,618,100</b>	<b>2,833,300</b>	<b>2,810,900</b>	<b>2,797,100</b>	<b>2,797,100</b>
<b>Metropolitan Supply Capability w/CRA Maximum of 1.25 MAF<sup>4</sup></b>	<b>2,618,100</b>	<b>2,765,600</b>	<b>2,710,700</b>	<b>2,689,400</b>	<b>2,689,400</b>
<b>Firm Demands on Metropolitan<sup>5,6</sup></b>	<b>2,410,000</b>	<b>2,431,000</b>	<b>2,459,000</b>	<b>2,596,000</b>	<b>2,729,000</b>
<b>Potential Reserve &amp; Replenishment Supplies</b>	<b>208,100</b>	<b>334,600</b>	<b>251,700</b>	<b>93,400</b>	<b>-39,600</b>

<sup>1</sup> Represents supply capability for resource programs under listed year type.

<sup>2</sup> Colorado River Aqueduct includes water management program supplies conveyed by the aqueduct

<sup>3</sup> California Aqueduct includes Central Valley transfers and storage program supplies conveyed by the aqueduct

<sup>4</sup> Maximum CRA deliveries limited to 1.25 MAF including SDCWA/IID Transfer supplies and Coachella and All-American Canals lining supplies.

<sup>5</sup> Based on SCAG 2004 RTP, SANDAG 2030 forecasts, projections of member agency existing and contracted active conservation and local supplies, remaining regional targets for active conservation and local supplies, SDCWA/IID Transfer supplies and Coachella and All-American Canals lining supplies.

<sup>6</sup> Includes projected firm sales plus 70% of projected IAWP agricultural sales

**Single Dry-year Supply Capability<sup>1</sup> & Projected Demands**

(Repeat of 1977 Hydrology)  
(acre-feet per year)

	2010	2015	2020	2025	2030
<b>Current Supplies</b>					
Colorado River Aqueduct <sup>2</sup>	722,000	699,000	699,000	699,000	699,000
California Aqueduct <sup>3</sup>	777,000	777,000	777,000	777,000	777,000
In-Basin Storage	840,000	837,800	807,900	784,300	784,300
<b>Supplies Under Development</b>					
Colorado River Aqueduct	95,000	460,000	400,000	400,000	400,000
California Aqueduct	330,000	214,500	269,500	269,500	269,500
In-Basin Storage	78,000	103,000	103,000	103,000	103,000
Transfers to Other Agencies	0	(35,000)	(35,000)	(35,000)	(35,000)
<b>Metropolitan Supply Capability</b>	<b>2,842,000</b>	<b>3,056,300</b>	<b>3,021,400</b>	<b>2,997,800</b>	<b>2,997,800</b>
<b>Metropolitan Supply Capability w/CRA Maximum of 1.25 MAF<sup>4</sup></b>	<b>2,842,000</b>	<b>2,988,600</b>	<b>2,921,200</b>	<b>2,890,100</b>	<b>2,890,100</b>
<b>Firm Demands on Metropolitan<sup>5,6</sup></b>	<b>2,326,000</b>	<b>2,342,000</b>	<b>2,377,000</b>	<b>2,504,000</b>	<b>2,631,000</b>
<b>Potential Reserve &amp; Replenishment Supplies</b>	<b>516,000</b>	<b>646,600</b>	<b>544,200</b>	<b>386,100</b>	<b>259,100</b>

<sup>1</sup> Represents supply capability for resource programs under listed year type.

<sup>2</sup> Colorado River Aqueduct includes water management program supplies conveyed by the aqueduct

<sup>3</sup> California Aqueduct includes Central Valley transfers and storage program supplies conveyed by the aqueduct

<sup>4</sup> Maximum CRA deliveries limited to 1.25 MAF including SDCWA/IID Transfer supplies and Coachella and All-American Canals lining supplies.

<sup>5</sup> Based on SCAG 2004 RTP, SANDAG 2030 forecasts, projections of member agency existing and contracted active conservation and local supplies, remaining regional targets for active conservation and local supplies, SDCWA/IID Transfer supplies and Coachella and All-American Canals lining supplies.

<sup>6</sup> Includes projected firm sales plus 70% of projected IAWP agricultural sales

**Average Supply Capability<sup>1</sup> & Projected Demands**

(Average of 1922 - 2004 Hydrologies)  
(acre-feet per year)

	2010	2015	2020	2025	2030
<b>Current Supplies</b>					
Colorado River Aqueduct <sup>2</sup>	711,000	678,000	677,000	677,000	677,000
California Aqueduct <sup>3</sup>	1,772,000	1,772,000	1,772,000	1,772,000	1,772,000
In-Basin Storage	0	0	0	0	0
<b>Supplies Under Development</b>					
Colorado River Aqueduct	0	0	0	0	0
California Aqueduct	185,000	185,000	240,000	240,000	240,000
In-Basin Storage	0	0	0	0	0
Transfers to Other Agencies	0	(35,000)	(35,000)	(35,000)	(35,000)
<b>Metropolitan Supply Capability</b>	<b>2,668,000</b>	<b>2,600,000</b>	<b>2,654,000</b>	<b>2,654,000</b>	<b>2,654,000</b>
<b>Metropolitan Supply Capability w/CRA Maximum of 1.25 MAF<sup>4</sup></b>	<b>2,668,000</b>	<b>2,600,000</b>	<b>2,654,000</b>	<b>2,654,000</b>	<b>2,654,000</b>
<b>Firm Demands on Metropolitan<sup>5,6</sup></b>	<b>2,073,000</b>	<b>2,095,000</b>	<b>2,131,000</b>	<b>2,258,000</b>	<b>2,390,000</b>
<b>Potential Reserve &amp; Replenishment Supplies</b>	<b>595,000</b>	<b>505,000</b>	<b>523,000</b>	<b>396,000</b>	<b>264,000</b>

<sup>1</sup> Represents supply capability for resource programs under listed year type.  
<sup>2</sup> Colorado River Aqueduct includes water management program supplies conveyed by the aqueduct  
<sup>3</sup> California Aqueduct includes Central Valley transfers and storage program supplies conveyed by the aqueduct  
<sup>4</sup> Maximum CRA deliveries limited to 1.25 MAF including SDCWA/IID Transfer supplies and Coachella and All-American Canals lining supplies.  
<sup>5</sup> Based on SCAG 2004 RTP, SANDAG 2030 forecasts, projections of member agency existing and contracted active conservation and local supplies, remaining regional targets for active conservation and local supplies, SDCWA/IID Transfer supplies and Coachella and All-American Canals lining supplies.  
<sup>6</sup> Includes projected firm sales plus 70% of projected IAWP agricultural sales

## Metropolitan Water District of Southern California Average Year

Demographics (1)	2005	2010	2015	2020	2025	2030
Population	18,233,700	19,138,000	19,914,600	20,664,600	21,467,500	22,058,200
Occupied Housing Units	5,803,300	6,145,200	6,444,600	6,751,100	7,075,600	7,376,400
Single Family	3,477,300	3,651,000	3,767,600	3,945,800	4,128,700	4,250,100
Multi-Family	2,326,500	2,494,200	2,677,000	2,805,300	2,946,800	3,126,300
Persons Per Household	3.08	3.05	3.03	3.00	2.99	2.97
Urban Employment	8,186,200	8,991,300	9,402,700	9,795,200	10,163,000	10,533,600

Conservation	2005	2010	2015	2020	2025	2030
Total Conservation	735,900	865,200	955,200	1,027,600	1,106,900	1,188,300
Installed Active Devices Through 2004	91,200	85,800	63,200	23,000	900	100
IRP Conservation Target (2)	6,100	27,100	38,300	45,700	30,500	23,800
Code-Based and Price-Effect Savings (3)	388,600	502,300	603,700	708,900	825,500	914,400
Pre-1990 Conservation	250,000	250,000	250,000	250,000	250,000	250,000

Total Demands After Conservation	2005	2010	2015	2020	2025	2030
Total Demand	4,303,900	4,647,500	4,764,200	4,927,200	5,068,100	5,190,400
Retail Agricultural	347,800	318,800	285,000	250,500	215,000	194,600
Retail Municipal and Industrial	3,768,000	4,053,400	4,196,900	4,392,100	4,569,600	4,719,400
Groundwater Replenishment	140,100	200,400	212,800	215,100	214,000	206,900
Seawater Barrier	48,000	74,900	69,500	69,500	69,500	69,500

Local Supplies	2005	2010	2015	2020	2025	2030
Total Local Supply	2,907,600	2,877,400	2,465,900	2,593,300	2,613,500	2,612,100
Groundwater	1,341,500	1,416,000	1,429,800	1,431,000	1,443,500	1,442,300
Surface Water	59,400	100,000	99,500	99,200	99,200	98,600
Los Angeles Aqueduct	373,300	252,500	253,000	252,900	253,200	253,600
IRP Local Resource Program Target	0	12,800	33,000	38,300	37,500	37,500
Groundwater Recovery	60,500	81,700	82,100	85,300	85,300	85,300
Total Recycling	221,000	328,800	350,900	376,400	377,200	377,200
M&I and Agricultural	152,300	180,900	204,000	229,500	230,300	230,300
Groundwater Replenishment	52,000	90,000	90,000	90,000	90,000	90,000
Sea Water Barrier	16,800	57,900	56,900	56,900	56,900	56,900
Other Imported Supplies	51,900	185,600	217,600	310,100	317,600	317,600

Demands on Metropolitan	2005	2010	2015	2020	2025	2030
Total Metropolitan Demand	2,196,100	2,270,100	2,298,300	2,334,000	2,454,500	2,578,300
Full Service (Tier I and Tier II)	1,918,900	2,007,000	2,039,100	2,085,400	2,225,400	2,364,800
Replenishment Water Rate (4)	167,500	169,200	179,700	182,800	183,100	176,800
Interim Agricultural Water Program	109,700	93,900	79,500	65,800	46,000	36,700

Firm Demands on Metropolitan (5)	2005	2010	2015	2020	2025	2030
	1,996,000	2,073,000	2,095,000	2,131,000	2,258,000	2,390,000

## Notes:

All units are acre-feet unless specified, rounded to the nearest hundred

Totals may not sum due to rounding

(1) Growth Projections: SCAG 2004 Regional Transportation Plan; SANDAG 2030 Forecast

(2) The 2030 savings target is derived from the 2003 IRP Update forecast projections for 2030; it is not an official target for 2030.

(3) Measured from 1990; Includes plumbing codes for pre-rinse spray heads and high efficiency washing machines

(4) Replenishment Water Rate demands include: seasonal shift, groundwater spreading, and groundwater in-lieu

(5) Firm demand on Metropolitan equals Full Service demands plus 70% of the Interim Agricultural Water Program demands