

APPENDIX E

CUWCC – LVMWD CONSERVATION BMP ACTIVITY REPORTS (Annual Reports) for 2001 – 2002 and 2003 – 2004, and COVERAGE REPORTS

Water Supply & Reuse

Reporting Unit:
Las Virgenes Municipal Water District

Year:
2004

Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
Metropolitan Water District of Southern California	24887	Imported
Ventura County	145.5	Imported
City of Simi Valley	25.6	Imported
Las Virgenes Municipal Water District	5788	Recycled

Total AF: 30846.1

Accounts & Water Use

Reporting Unit Name:
Las Virgenes Municipal Water District

Submitted to CUWCC
12/01/2004

Year:
2004

A. Service Area Population Information:

- Total service area population 69134

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	17624	17765	0	0
2. Multi-Family	529	1644	0	0
3. Commercial	654	1921	0	0
4. Industrial	0	0	0	0
5. Institutional	0	0	0	0
6. Dedicated Irrigation	260	1191	0	0
7. Recycled Water	574	4777	0	0
8. Other	380	539	0	0
9. Unaccounted	NA	3009	NA	0
Total	20021	30846	0	0

Metered

Unmetered

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

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

- | | |
|--|------------|
| 1. Based on your signed MOU date, 09/01/1991, your Agency STRATEGY DUE DATE is: | 08/31/1993 |
| 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? | 1/1/1991 |
| 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? | 1/1/1991 |

B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	75	102
2. Number of surveys completed:	21	1205
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	no	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)	Odometer Wheel	
11. Were customers provided with information packets that included evaluation results and water savings recommendations?	yes	no

BMP 02: Residential Plumbing Retrofit

Reporting Unit:
**Las Virgenes Municipal Water
District**

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:

While there is no explicit enforcement mechanism, In march of 1989, the LVMWD board of directors adopted a water conservation ordinance #3-89-173 which stated that all new shower heads within the district must flow at a rate less than 2.5 gallons per minute at 80 psi.

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? no

3. Estimated percent of single-family households with low-flow showerheads: 32%

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: 75%

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

The 2.5 gpm fixture saturation levels were determined by taking the pre-1989 housing stock (14,085 single and 6,805 multi-family dwellings) and multiplying them by a the average number of showerheads found in that setting as determined by the AWWARF North American End Use Study. For the single-family sector, we combined the figures for the average number of "shower only" bathrooms and "tub/shower" bathrooms. These figures: 1.25 and 1.56, respectively, combine to suggest an average of 2.81 showerheads per dwelling. For the multi-family setting we assumed that 75% of all dwellings would have just one shower fixture, and 25% of all dwellings would have two. This resulted in an average of 1.25 showerheads per dwelling. Base housing stock (pre-1992) was determined to be 14,086 single-family dwellings and 6,805 multi-family dwellings. By the end of fiscal year 00-01, we had distributed over 24,500 showerheads, but we assume an installation rate of less than 100%. Installation rates for programs in our area that were carried out by the Metropolitan Water District of Southern California (MWD) were estimated by MWD. Installation rates for programs carried out by Las Virgenes are estimated at 70% prior to 1998, and 100% from that point on. The change in installation rate is based on the perception that the combination of normal to surplus rainfall and "by customer request only" distribution programs has resulted in people only taking showerheads when they plan to install them. The resulting number of showerheads installed through the end of FY 03-04 is 19,212. We assumed that because owners of multi-family complexes have a greater financial incentive to install low flow showerheads, without much consideration for shower quality, it is safe to

assume a 75% installation rate. This results in an estimated installation of 6,380 low flow showerheads in the multi-family sector. The remaining 12,832 fixtures are then credited to the single family sector, resulting in a calculated saturation rate of 32%.

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? 1/1/1990

b. Describe your targeting/ marketing strategy.
Advertising in newspapers, on District bills, voice mail on District phone system, District newsletter, and special events held throughout the year.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	29	572
3. Number of toilet-displacement devices distributed:	0	0
4. Number of toilet flappers distributed:	0	0
5. Number of faucet aerators distributed:	0	750
6. Does your agency track the distribution and cost of low-flow devices?		yes

a. If YES, in what format are low-flow devices tracked? Spreadsheet

b. If yes, describe your tracking and distribution system :
Tracking begins as a manual tally which is transferred to an Excel spreadsheet. Distribution is made in response to requests from customers visiting District headquarters, requests to Water Efficiency Survey Staff, and to staff at special events.

C. Low-Flow Device Distribution Expenditures

	This Year	Next Year
1. Budgeted Expenditures	1000	1000
2. Actual Expenditures	2250	

D. "At Least As Effective As"

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

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

LVMWD staff understands the goal of BMP2 to be the lowering of shower fixture flow rates to the 2.5 gpm level as a means of conserving water. Knowing that the 2.5 gpm rate is measured at 80 psi, and realizing that house pressures are regulated to below 80 psi to protect the interior fixtures, staff believes that these lower pressures result in a lower showerhead flow rate. To investigate this theory, staff reviewed the American Water Works Association Research Foundation*s North American Residential End Use Study, a study in which Las Virgenes participated during 1997 and 1998. The study population, randomly selected, consisted of 100 homes, 94 of which were built prior to 1992. The study confirms the idea that showerheads within the Las Virgenes service area flow at less than 2.5 gpm. The finding, shown in Table 5.6, is that the average flow rate for showerheads in this area is 2.19 gpm. In this case, the "At least As Effective As" variant is the use of lower pressures to accomplish the stated goal of conserving water by reducing shower flow rates below 2.5 gpm rather than changing fixtures.

E. Comments

B.2.--MFR showerhead breakdown: Town and Country = 50, Lake Lindero = 58, Archstone Calabasas = 450, unknown addresses handed out over the counter = 14. B.5.--750 aerators to Archstone Calabasas.

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:	BMP Form Status:	Year:
Las Virgenes Municipal Water District	100% Complete	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) | 27837 |
| b. Determine other system verifiable uses (AF) | 2.1 |
| c. Determine total supply into the system (AF) | 30848.1 |
| d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. | 0.90 |
| 3. Does your agency keep necessary data on file to verify the values used to calculate verifiable uses as a percent of total production? | yes |
| 4. Did your agency complete a full-scale audit during this report year? | no |
| 5. Does your agency maintain in-house records of audit results or the completed AWWA audit worksheets for the completed audit? | yes |
| 6. Does your agency operate a system leak detection program? | yes |
| a. If yes, describe the leak detection program:
Visual inspection of distribution routes. Comparison of supply to sales.
Helicopter survey of 8.1 miles of pipeline traversing rugged terrain. | |

B. Survey Data

- | | |
|--|--------|
| 1. Total number of miles of distribution system line. | 401.48 |
| 2. Number of miles of distribution system line surveyed. | 401.48 |

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	45000	45000
2. Actual Expenditures	45000	

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

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

Reporting Unit:
Las Virgenes Municipal Water District

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:
 Las Virgenes MWD has no unmetered connections.
- 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? yes
 - a. If YES, when was the feasibility study conducted? 1/1/1991 (mm/dd/yy)
 - b. Describe the feasibility study:
 During the 1970's, LVMWD determined that the conversion of existing commercial landscape irrigation from potable to recycled water use was cost effective and would be aggressively pursued.
- 2. Number of CII accounts with mixed-use meters. 337
- 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

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:
**Las Virgenes Municipal
 Water District**

BMP Form Status:
100% Complete

Year:
2004

A. Water Use Budgets

- | | |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts: | 811 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: | 87 |
| 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? | yes |

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? | 1/1/1990 |
| b. Description of marketing / targeting strategy:
Customer request. | |
| 2. Number of Surveys Offered. | 50 |
| 3. Number of Surveys Completed. | 17 |
| 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:
Upon customer request. | |

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 program. Does your agency provide mixed-use accounts with landscape budgets? | yes |
| 2. Number of CII mixed-use accounts with landscape budgets. | 104 |
| 3. Do you offer landscape irrigation training? | yes |
| 4. Does your agency offer financial incentives to improve landscape water use efficiency? | no |

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:

New account information packages include a variety of brochures on water efficient plantings and irrigation.

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?

yes

7. Do you provide customer notices at the start of the irrigation season?

yes

8. Do you provide customer notices at the end of the irrigation season?

yes

D. Landscape Conservation Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	2964	3383
2. Actual Expenditures	8189	

E. "At Least As Effective As"

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

yes

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

In the 1970's Las Virgenes Municipal Water District (LVMWD) realized the value of total beneficial reuse of all resources. Ever since, LVMWD has aggressively pursued the development of a reclaimed water market. By requiring all non-residential landscaping located along the district's reclaimed water distribution main lines to be designed or converted to utilize reclaimed water for landscape irrigation, LVMWD now serves 574 of the 811 dedicated irrigation accounts within our service area with reclaimed water. This year, that equated to 4777 acre-feet of water out of a total of 5968 acre-feet (80%) consumed.

F. Comments

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit: **Las Virgenes Municipal Water District** 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? | no |
| a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is. | |
| 2. Does your agency offer rebates for high-efficiency washers? | yes |
| 3. What is the level of the rebate? | 100 |
| 4. Number of rebates awarded. | 275 |

B. Rebate Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	18347	23784
2. Actual Expenditures	69299	

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 rebate dollars were decreased after the beginning of the fiscal year, from \$300 to \$100, after completion of our enhanced incentive program for customers purchasing HECWs with a water factor of 9.5 or better.

BMP 07: Public Information Programs

Reporting Unit:

Las Virgenes Municipal Water District

BMP Form Status:

100% Complete

Year:

2004

A. Implementation

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

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

Las Virgenes Municipal Water District maintains an intensive outreach commitment to customers regarding water conservation benefits and practices. In cooperation with Metropolitan Water District of Southern California, LVMWD hosted two water education tours, one of the Colorado River Aqueduct and one Diamond Valley Lake Tour. Exposure to the complexities of water delivery and the grand scope of the infrastructure and efforts to provide local residents safe and reliable water make strong impressions on the value of water as a resource and the importance of conservation. In addition to ongoing tours available of district facilities, specialized tours were provided to leadership from local cities and local environmental groups and their volunteers. The district continued its outreach through traditional media, including newsletter ads, portions of the Water Quality Report dedicated to conservation messages, on-hold messages for incoming calls, publications, web information, presence at events, and presentations to local groups. Efforts continue to refine these programs to maximize their impact. In celebration of water awareness month, books and resource materials were provided to local libraries. Public awareness of these resources was expanded through book presentations scheduled at local City Council meetings, all of which are carried on public access TV. In addition, posters in public and school libraries displayed throughout the month depicted new materials and promoted the program. Also, the district web site, www.lvmwd.com, now carries a comprehensive listing of all materials provided to local libraries. The third phase of the water awareness demonstration garden at the local community center was completed with the production of an information brochure and guide booklet. We added more plant species to our California Friendly plant booklet, with information and photos from the ongoing newsletter column; and prepared a community compost brochure. These accompany other water conservation information included in displays and are provided to all new customers as part of their welcome packets when service is initiated. Conservation messages are further distributed in conjunction with a local weekly paper, which has agreed to carry articles prepared by the district. The District continued point of purchase advertising in conjunction with a rebate program for High Efficiency Washers. Water Awareness baskets provided as auction items and prizes at silent auctions, chamber and civic events, and other venues offer yet another opportunity to promote conservation awareness and practices. With contents targeted to each specific event, these baskets include garden tools, seeds and bulbs for drought tolerant plantings, books on water-wise and xeriscape gardening, and children's books about conservation.

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	11
b. Public Service Announcement	no	0
c. Bill Inserts / Newsletters / Brochures	yes	6
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	0
f. Special Events, Media Events	yes	11
g. Speaker's Bureau	yes	14
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	66183	73712
2. Actual Expenditures	39689	

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

2.e.--Production of a new Demonstration Garden Brochure.

BMP 08: School Education Programs

Reporting Unit:
**Las Virgenes Municipal Water
 District**

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

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

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

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
Grades K-3rd	yes	162	4380	0
Grades 4th-6th	yes	40	3058	0
Grades 7th-8th	yes	0	0	1
High School	yes	1	30	1

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

4. When did your Agency begin implementing this program? 5/1/1991

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	28958	31438
2. Actual Expenditures	20253	

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

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:
Las Virgenes Municipal Water District

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? | yes |
|---|-----|

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered	0	0	0
b. Number of New Surveys Completed	4	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	yes	yes	yes
f. Evaluation of all water-using apparatus and processes	yes	yes	yes
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	yes	yes	yes

Agency CII Customer Incentives	Budget (\$/Year)	No. Awarded to Customers	Total \$ Amount Awarded
h. Rebates	0	97	5170
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?	no
6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings?	no
7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991.	1.54
8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991.	13.89

B. Conservation Program Expenditures for CII Accounts

	This Year	Next Year
1. Budgeted Expenditures	6250	5413
2. Actual Expenditures	11651	

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

Surveys conducted upon customer request. B.2. LVMWD = \$4641, Save Water - Save a Buck = \$7,010.50.

BMP 09a: CII ULFT Water Savings

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2004

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? Check all that apply. CII Sector or subsector
CII ULFT Study subsector
targeting

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

We found CII sectors and sub sectors most effective because we were able to version our marketing efforts appropriately.

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

Newsletter
Web page
Direct letter
Bill insert
Newspapers
Trade publications
Other print media
Trade shows and events
Telemarketing

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

For the purposes of this program, Trade Allies have proven to be the most effective overall marketing tool, as well as the most effective per dollar expended. Trade Allies include plumbers, distributors, retail home improvement stores and product manufacturers.

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 ? 3

CII Subsector	Number of Toilets Replaced			
	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount
4.				
a. Offices	3	0	0	0
b. Retail / Wholesale	0	0	0	0
c. Hotels	0	0	0	0
d. Health	29	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
7. Participant tracking and follow-up.				Site Visit Telephone
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				1
b. Inadequate payback				3
c. Inadequate ULFT performance				2
d. Lack of funding				5
e. American's with Disabilities Act				0
f. Permitting				0
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.

Customers are generally more willing to participate in the program if the cost of the retrofit is in balance with the amount of the rebate, and the projected water savings is significant. Resistance occurs if the out-of-pocket expense for the retrofit is too costly and the rebate amount is too low.

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?

Either Metropolitan or its Agencies to provide this response.

C. Conservation Program Expenditures for CII ULFT

1. CII ULFT Program: Annual Budget & Expenditure Data

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

2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution	1920
b. State agency contribution	0
c. Federal agency contribution	0
d. Other contribution	0
e. Total	1920

D. Comments

BMP 11: Conservation Pricing

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

Rate Structure Data Volumetric Rates for Water Service by Customer Class

1. Residential

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	\$16420195
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$8164396

2. Commercial

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	\$3432635
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$915000

3. Industrial

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

4. Institutional / Government

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

5. Irrigation

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$5700534
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$41028

6. Other

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$896200
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$74640

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

5. Irrigation figures include all potable and recycled water services. 6. "Other" includes fire services and temporary meters using either potable or recycled water.

BMP 12: Conservation Coordinator

Reporting Unit:
**Las Virgenes Municipal Water
 District**

BMP Form Status:
100% Complete

Year:
2004

A. Implementation

1. Does your Agency have a conservation coordinator? yes
2. Is this a full-time position? no
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? no
4. Partner agency's name: n/a
5. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? 30%
 - b. Coordinator's Name Scott W. Harris
 - c. Coordinator's Title Water Conservation, Reuse and Cross Connection Control Supervisor
 - d. Coordinator's Experience and Number of Years 13 years in water conservation programs
 - e. Date Coordinator's position was created (mm/dd/yyyy) 9/1/1990
6. Number of conservation staff, including Conservation Coordinator. 3

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	469561	670188
2. Actual Expenditures	588940	

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

BMP 13: Water Waste Prohibition

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **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:

WASTE OF WATER PROHIBITED: No customer shall knowingly permit waste or leaks of water. Where water is wastefully or negligently used on the customer's premises, the District may discontinue the service, if such conditions are not corrected within five days after the General Manager gives the customer written notice thereof. WATER CONSERVATION: It is the desire of District to effect conservation of water resources whenever possible, such measures being consistent with legal responsibilities to seek to wisely utilize the water resources of the State of California and the District. No irrigation of new or existing parks, median strips, landscaped public areas or landscaped areas, lawns, or gardens surrounding single family homes, condominiums, town-houses, apartments, and industrial parks shall occur in such a way as to waste water. The rate and extent of application of water shall be controlled by the consumer so as to minimize run-off from the irrigated areas.

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:

LVMWD and Los Angeles County	Ordinance 11-86-161, Section 3-4.203. Ordinance 1-88-168, Section 4-4.205.
------------------------------	--

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:
See Ordinances.

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. no
- 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. no
 - ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced. no
- 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. no

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

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

C. Water Waste Prohibition Program Expenditures

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

D. "At Least As Effective As"

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

District does not track water waste expenditures.

BMP 14: Residential ULFT Replacement Programs

Reporting Unit: Las Virgenes Municipal Water District	BMP Form Status: 100% Complete	Year: 2004
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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

Number of Toilets Replaced by Agency Program During Report Year

Replacement Method	SF Accounts	MF Units
2. Rebate	276	723
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	0	0
Total	276	723

6. Describe your agency's ULFT program for single-family residences.
Rebate \$60 per high flush volume toilet replaced.

7. Describe your agency's ULFT program for multi-family residences.
This fiscal year we were able to secure grant funding that allowed us to add additional monies to our normal rebate level of \$60 per high flush volume toilet replaced. This funding allowed us to rebate up to \$150 per fixture for large apartment and condominium complexes, essentially providing a "no out of pocket costs" program.

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	71244	76907
2. Actual Expenditures	109748	

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

Water Supply & Reuse

Reporting Unit:
Las Virgenes Municipal Water District

Year:
2003

Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
Metropolitan Water District of Southern California	21434	Imported
Ventura County	54.6	Imported
City of Simi Valley	25.1	Imported
Las Virgenes Municipal Water District	5093.8	Recycled

Total AF: 26607.5

Accounts & Water Use

Reporting Unit Name:
Las Virgenes Municipal Water District

Submitted to CUWCC
12/01/2004

Year:
2003

A. Service Area Population Information:

1. Total service area population 67914

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	17193	16067.8	0	0
2. Multi-Family	529	1616.6	0	0
3. Commercial	647	1933.6	0	0
4. Industrial	0	0	0	0
5. Institutional	0	0	0	0
6. Dedicated Irrigation	253	1007.4	0	0
7. Recycled Water	564	4572.8	0	0
8. Other	362	309	0	0
9. Unaccounted	NA	1100.3	NA	0
Total	19548	26607.5	0	0

Metered

Unmetered

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

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **2003**

A. Implementation

- | | |
|--|------------|
| 1. Based on your signed MOU date, 09/01/1991, your Agency STRATEGY DUE DATE is: | 08/31/1993 |
| 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? | 1/1/1991 |
| 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? | 1/1/1991 |

B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	75	102
2. Number of surveys completed:	1	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	no	no
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)	Odometer Wheel	
11. Were customers provided with information packets that included evaluation results and water savings recommendations?	yes	yes

BMP 02: Residential Plumbing Retrofit

Reporting Unit:
**Las Virgenes Municipal Water
District**

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:

While there is no explicit enforcement mechanism, In march of 1989, the LVMWD board of directors adopted a water conservation ordinance #3-89-173 which stated that all new shower heads within the district must flow at a rate less than 2.5 gallons per minute at 80 psi.

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? no

3. Estimated percent of single-family households with low-flow showerheads: 31%

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: 75%

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

The 2.5 gpm fixture saturation levels were determined by taking the pre-1989 housing stock (14,085 single and 6,805 multi-family dwellings) and multiplying them by a the average number of showerheads found in that setting as determined by the AWWARF North American End Use Study. For the single family sector, we combined the figures for the average number of "shower only" bathrooms and "tub/shower" bathrooms. These figures: 1.25 and 1.56, respectively, combine to suggest an average of 2.81 showerheads per dwelling. For the multi-family setting we assumed that 75% of all dwellings would have just one shower fixture, and 25% of all dwellings would have two. This resulted in an average of 1.25 showerheads per dwelling. Base housing stock (pre-1992) was determined to be 14,086 single family dwellings and 6,805 multi-family dwellings. By the end of fiscal year 00-01, we had distributed over 24,500 showerheads, but we assume an installation rate of less than 100%. Installation rates for programs in our area that were carried out by the Metropolitan Water District of Southern California (MWD) were estimated by MWD. Installation rates for programs carried out by Las Virgenes are estimated at 70% prior to 1998, and 100% from that point on. The change in installation rate is based on the perception that the combination of normal to surplus rainfall and "by customer request only" distribution programs has resulted in people only taking showerheads when they plan to install them. The resulting number of showerheads installed through the end of FY 02-03 is 18,611. We assumed that because owners of multi-family complexes have a greater financial incentive to install low flow showerheads, without much consideration for shower quality, it is safe to

assume a 75% installation rate. This results in an estimated installation of 6,380 low flow showerheads in the multi-family sector. The remaining 12,231 fixtures are then credited to the single family sector, allowing us to calculate a 31% saturation rate.

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? 1/1/1990

b. Describe your targeting/ marketing strategy.
Advertising in newspapers, on District bills, voice mail on District phone system, special events held throughout the year.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	22	11
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?		yes

a. If YES, in what format are low-flow devices tracked? Spreadsheet

b. If yes, describe your tracking and distribution system :
Tracking begins as a manual tally which is transferred to an Excel spreadsheet. Distribution is made in response to requests from customers visiting District headquarters, requests to Water Efficiency Survey Staff, and to staff at special events.

C. Low-Flow Device Distribution Expenditures

	This Year	Next Year
1. Budgeted Expenditures	1000	1000
2. Actual Expenditures	0	

D. "At Least As Effective As"

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

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

LVMWD staff understands the goal of BMP2 to be the lowering of shower fixture flow rates to the 2.5 gpm level as a means of conserving water. Knowing that the 2.5 gpm rate is measured at 80 psi, and realizing that house pressures are regulated to below 80 psi to protect the interior fixtures, staff believes that these lower pressures result in a lower showerhead flow rate. To investigate this theory, staff reviewed the American Water Works Association Research Foundation*s North American Residential End Use Study, a study in which Las Virgenes participated during 1997 and 1998. The study population, randomly selected, consisted of 100 homes, 94 of which were built prior to 1992. The study confirms the idea that showerheads within the Las Virgenes service area flow at less than 2.5 gpm. The finding, shown in Table 5.6, is that the average flow rate for showerheads in this area is 2.19 gpm. In this case, the "At least As Effective As" variant is the use of lower service pressures to accomplish the stated goal of conserving water by reducing shower flow rates below 2.5 gpm rather than changing fixtures.

E. Comments

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit: **Las Virgenes Municipal Water District** 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) 25507.2
 - b. Determine other system verifiable uses (AF) 8.16
 - c. Determine total supply into the system (AF) 26607.5
 - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 0.96
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? yes
6. Does your agency operate a system leak detection program? yes
 - a. If yes, describe the leak detection program:
Visual inspection of distribution routes. Comparison of supply to sales. Helicopter survey of 8.1 miles of pipeline traversing rugged terrain.

B. Survey Data

1. Total number of miles of distribution system line. 396.57
2. Number of miles of distribution system line surveyed. 396.57

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	62500	45000
2. Actual Expenditures	45000	

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

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

Reporting Unit: **Las Virgenes Municipal Water District** 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:
Las Virgenes MWD has no unmetered connections. | |
| 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? | yes |
| a. If YES, when was the feasibility study conducted? (mm/dd/yy) | 1/1/1991 |
| b. Describe the feasibility study:
During the 1970's, LVMWD determined that the conversion of existing commercial landscape irrigation from potable to recycled water use was cost effective and would be aggressively pursued. | |
| 2. Number of CII accounts with mixed-use meters. | 337 |
| 3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. | 2 |

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

Two customers converted to recycled water irrigation. One mixed use customer added - new construction, minimal landscape, separate irrigation meter not justified.

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2003

A. Water Use Budgets

- | | |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts: | 797 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: | 70 |
| 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? | yes |

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? | 1/1/1990 |
| b. Description of marketing / targeting strategy:
Customer request. | |
| 2. Number of Surveys Offered. | 50 |
| 3. Number of Surveys Completed. | 0 |
| 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:
Upon customer request. | |

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 program. Does your agency provide mixed-use accounts with landscape budgets? | yes |
| 2. Number of CII mixed-use accounts with landscape budgets. | 104 |
| 3. Do you offer landscape irrigation training? | yes |

4. Does your agency offer financial incentives to improve landscape water use efficiency? no

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:

New account information packages include a variety of brochures on water efficient plantings and irrigation.

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? yes

7. Do you provide customer notices at the start of the irrigation season? yes

8. Do you provide customer notices at the end of the irrigation season? yes

D. Landscape Conservation Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	6228	2964
2. Actual Expenditures	5884	

E. "At Least As Effective As"

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

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

In the 1970's Las Virgenes Municipal Water District (LVMWD) realized the value of total beneficial reuse of all resources. Ever since, LVMWD has aggressively pursued the development of a reclaimed water market. By requiring all non-residential landscaping located along the district's reclaimed water distribution main lines to be designed or converted to utilize reclaimed water for landscape irrigation, LVMWD now serves 564 of the 797 dedicated irrigation accounts within our service area with reclaimed water. This year, that equated to 4572.8 acre-feet of water out of a total of 5580.2 acre-feet (82%).

F. Comments

Budgeted and actual water use have not been quantified.

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:
Las Virgenes Municipal Water District

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? | no |
| a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is. | |
| 2. Does your agency offer rebates for high-efficiency washers? | yes |
| 3. What is the level of the rebate? | 300 |
| 4. Number of rebates awarded. | 430 |

B. Rebate Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	14264	18347
2. Actual Expenditures	116188	

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 rebate dollars were increased after the beginning of the fiscal year, from \$100 to \$300, for the first 500 customers purchasing a high efficiency clothes washer with a water factor of 9.5 or better.

BMP 07: Public Information Programs

Reporting Unit:

Las Virgenes Municipal Water District

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.

Las Virgenes Municipal Water District maintains an intensive outreach commitment to customers regarding water conservation benefits and practices. In cooperation with Metropolitan Water District of Southern California, LVMWD hosted two water education tours, one of the Colorado River Aqueduct and another of the State Water Project. Exposure to the complexities of water delivery and the grand scope of the infrastructure and efforts to provide local residents safe and reliable water make strong impressions on the value of water as a resource and the importance of conservation. In addition to ongoing tours available of district facilities, specialized tours were provided to leadership from local cities and local environmental groups and their volunteers. The district continued its outreach through traditional media, including newsletter ads, portions of the Water Quality Report dedicated to conservation messages, on-hold messages for incoming calls, publications, web information, presence at events, and presentations to local groups. Efforts continue to refine these programs to maximize their impact. In celebration of water awareness month, books and resource materials were provided to local libraries. Public awareness of these resources was expanded through book presentations scheduled at local City Council meetings, all of which are carried on public access TV. In addition, posters in public and school libraries displayed throughout the month depicted new materials and promoted the program. Also, the district web site, www.lvmwd.com, now carries a comprehensive listing of all materials provided to local libraries. The second phase of the water awareness demonstration garden at the local community center got under way, with selection and installation of additional attractive water-wise plants. New publications from the district include a booklet of water-wise plants, with information and photos from the ongoing newsletter column; a card telling how to test toilets for leaks and how to estimate water loss from a leaking toilet; an information card explaining, in simple terms, how to use a water meter to test for leaks. These accompany other water conservation information included in displays and are provided to all new customers as part of their welcome packets when service is initiated. Conservation messages are further distributed in conjunction with a local weekly paper, which has agreed to carry articles prepared by the district. The District placed advertising in conjunction with a rebate program for High Efficiency Washers. Water Awareness baskets provided as auction items and prizes at silent auctions, chamber and civic events, and other venues offer yet another opportunity to promote conservation awareness and practices. With contents targeted to each specific event, these baskets include garden tools, seeds and bulbs for drought tolerant plantings, books on water-wise and xeriscape gardening, and children's books about conservation.

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	20
b. Public Service Announcement	no	0
c. Bill Inserts / Newsletters / Brochures	yes	6
d. Bill showing water usage in comparison to previous year's usage	no	
e. Demonstration Gardens	yes	2
f. Special Events, Media Events	yes	10
g. Speaker's Bureau	yes	10
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	67994	66182
2. Actual Expenditures	41607	

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

BMP 08: School Education Programs

Reporting Unit:
Las Virgenes Municipal Water District

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	162	4303	0
Grades 4th-6th	yes	40	2563	1
Grades 7th-8th	no	0	0	0
High School	no	0	0	0

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

4. When did your Agency begin implementing this program? 5/1/1991

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	12605	28958
2. Actual Expenditures	13899	

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

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
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? | yes |
|---|-----|

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	yes	yes	yes
f. Evaluation of all water-using apparatus and processes	yes	yes	yes
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	yes	yes	yes

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? | no |
| 6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? | no |
| 7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991. | 0 |
| 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	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

Surveys conducted upon customer request.

BMP 09a: CII ULFT Water Savings

Reporting Unit:
Las Virgenes Municipal Water District

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? Check all that apply. CII Sector or subsector
CII ULFT Study subsector
targeting

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

We found CII sectors and sub sectors most effective because we were able to version our marketing efforts appropriately.

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

Newsletter
Web page
Direct letter
Bill insert
Newspapers
Trade publications
Other print media
Trade shows and events
Telemarketing

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

For the purposes of this program, Trade Allies have proven to be the most effective overall marketing tool, as well as the most effective per dollar expended. Trade Allies include plumbers, distributors, retail home improvement stores and product manufacturers.

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 ? 3

CII Subsector	Number of Toilets Replaced			
	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount
4.				
a. Offices	21	0	0	0
b. Retail / Wholesale	3	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
7. Participant tracking and follow-up.				Site Visit Telephone
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				1
b. Inadequate payback				3
c. Inadequate ULFT performance				2
d. Lack of funding				5
e. American's with Disabilities Act				0
f. Permitting				0
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.

Customers are generally more willing to participate in the program if the cost of the retrofit is in balance with the amount of the rebate, and the projected water savings is significant. Resistance occurs if the out-of-pocket expense for the retrofit is too costly and the rebate amount is too low.

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?

Either Metropolitan or its Agencies to provide this response.

C. Conservation Program Expenditures for CII ULFT

1. CII ULFT Program: Annual Budget & Expenditure Data

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

2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution	1440
b. State agency contribution	0
c. Federal agency contribution	0
d. Other contribution	0
e. Total	1440

D. Comments

BMP 11: Conservation Pricing

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2003

A. Implementation

Rate Structure Data Volumetric Rates for Water Service by Customer Class

1. Residential

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	\$15131915
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$7590969

2. Commercial

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	\$3377476
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$900296

3. Industrial

a. Water Rate Structure	Service Not Provided
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

4. Institutional / Government

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$0
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$0

5. Irrigation

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$1387521
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$42741

6. Other

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$607491
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$50595

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

5. Irrigation figures include all potable and recycled water services. 6. "Other" includes fire system services, and temporary meters using either potable or recycled water.

BMP 12: Conservation Coordinator

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2003

A. Implementation

1. Does your Agency have a conservation coordinator? yes
2. Is this a full-time position? no
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? no
4. Partner agency's name: n/a
5. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? 30%
 - b. Coordinator's Name Scott W. Harris
 - c. Coordinator's Title Water Conservation and Reuse Supervisor
 - d. Coordinator's Experience and Number of Years 12 years in water conservation programs.
 - e. Date Coordinator's position was created (mm/dd/yyyy) 9/1/1990
6. Number of conservation staff, including Conservation Coordinator. 3

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	385758	469561
2. Actual Expenditures	381831	

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

BMP 13: Water Waste Prohibition

Reporting Unit: **Las Virgenes Municipal Water District** 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:

WASTE OF WATER PROHIBITED: No customer shall knowingly permit waste or leaks of water. Where water is wastefully or negligently used on the customer's premises, the District may discontinue the service, if such conditions are not corrected within five days after the General Manager gives the customer written notice thereof. WATER CONSERVATION: It is the desire of District to effect conservation of water resources whenever possible, such measures being consistent with legal responsibilities to seek to wisely utilize the water resources of the State of California and the District. No irrigation of new or existing parks, median strips, landscaped public areas or landscaped areas, lawns, or gardens surrounding single family homes, condominiums, town-houses, apartments, and industrial parks shall occur in such a way as to waste water. The rate and extent of application of water shall be controlled by the consumer so as to minimize run-off from the irrigated areas.

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:

LVMWD and Los Angeles County	Ordinance 11-86-161, Section 3-4.203. Ordinance 1-88-168, Section 4-4.205.
------------------------------	--

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:
See Ordinances.

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. no
- 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. no
 - ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced. no
- 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. no
- 4. Does your agency include water softener checks in home water audit programs? no
- 5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? no

C. Water Waste Prohibition Program Expenditures

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

D. "At Least As Effective As"

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

District does not track water waste expenditures.

BMP 14: Residential ULFT Replacement Programs

Reporting Unit:
Las Virgenes Municipal Water District

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
Number of Toilets Replaced by Agency Program During Report Year		
Replacement Method	SF Accounts	MF Units
2. Rebate	280	35
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	0	0
	<hr/>	
Total	280	35

6. Describe your agency's ULFT program for single-family residences.
 Rebate \$60 per high flush volume toilet replaced.

7. Describe your agency's ULFT program for multi-family residences.
 Rebate \$60 per high flush volume toilet replaced.

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	29646	71244
2. Actual Expenditures	25884	

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

Water Supply & Reuse

Reporting Unit:
Las Virgenes Municipal Water District

Year:
2002

Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
Metropolitan Water District of Southern California	22955.76	Imported
Ventura County	117.66	Imported
City of Simi Valley	22.02	Imported
Westlake Wells	179.38	Groundwater
Tapia Water Reclamation Facility	4862.92	Recycled

Total AF: 28137.74

Accounts & Water Use

Reporting Unit Name:
Las Virgenes Municipal Water District

Submitted to CUWCC
02/07/2003

Year:
2002

A. Service Area Population Information:

1. Total service area population 67050

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	17479	16344.1	0	0
2. Multi-Family	529	1604	0	0
3. Commercial	520	1370.5	0	0
4. Industrial	0	0	0	0
5. Institutional	108	430.4	0	0
6. Dedicated Irrigation	230	999.1	0	0
7. Recycled Water	556	4711.9	0	0
8. Other	350	365.7	0	0
9. Unaccounted	NA	0	NA	0
Total	19772	25825.7	0	0

Metered

Unmetered

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

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **2002**

A. Implementation

- | | |
|--|------------|
| 1. Based on your signed MOU date, 09/01/1991, your Agency STRATEGY DUE DATE is: | 08/31/1993 |
| 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? | 1/1/1991 |
| 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? | 1/1/1991 |

B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	75	102
2. Number of surveys completed:	41	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 | no | no |
| 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) | Odometer Wheel | |

- | | | |
|--|--|----------|
| 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. | Agency retains water auditor data collection forms, calculated water budgets and customer correspondence. Budget related information is databased. | |

C. Water Survey Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	19575	20572
2. Actual Expenditures	1006	

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

BMP 02: Residential Plumbing Retrofit

Reporting Unit:
**Las Virgenes Municipal Water
District**

BMP Form Status:
100% Complete

Year:
2002

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:

While there is no explicit enforcement mechanism, In march of 1989, the LVMWD board of directors adopted a water conservation ordinance #3-89-173 which stated that all new shower heads within the district must flow at a rate less than 2.5 gallons per minute at 80 psi.

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? no

3. Estimated percent of single-family households with low-flow showerheads: 31%

4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? no

5. Estimated percent of multi-family households with low-flow showerheads: 75%

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

The 2.5 gpm fixture saturation levels were determined by taking the pre-1989 housing stock (14,085 single and 6,805 multi-family dwellings) and multiplying them by a the average number of showerheads found in that setting as determined by the AWWARF North American End Use Study. For the single family sector, we combined the figures for the average number of "shower only" bathrooms and "tub/shower" bathrooms. These figures: 1.25 and 1.56, respectively, combine to suggest an average of 2.81 showerheads per dwelling. For the multi-family setting we assumed that 75% of all dwellings would have just one shower fixture, and 25% of all dwellings would have two. This resulted in an average of 1.25 showerheads per dwelling. Base housing stock (pre-1992) was determined to be 14,086 single family dwellings and 6,805 multi-family dwellings. By the end of fiscal year 00-01, we had distributed over 24,500 showerheads, but we assume an installation rate less than 100%. Installation rates for programs in our area that were carried out by the Metropolitan Water District of Southern California (MWD) were estimated by MWD. Installation rates for programs carried out by Las Virgenes are estimated at 70% prior to 1998, and 100% from that point on. The change in installation rate is based on the perception that the combination of normal to surplus rainfall and "by customer request only" distribution programs has resulted in people only taking showerheads when they plan to install them. The resulting number of showerheads installed is 18,578. We assumed that because owners of multi-family complexes have a greater financial incentive to install low flow showerheads, without much consideration for shower quality, it is safe to assume a 75% installation

rate. This results in an estimated installation of 6,380 low flow showerheads in the multi-family sector. The remaining 12,198 fixtures are then credited to the single family sector, allowing us to calculate a 31% saturation rate.

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? 1/1/1990

b. Describe your targeting/ marketing strategy.
Advertising in newspapers, on District bills, voice mail on District phone system, special events held throughout the year.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	17	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?		yes

a. If YES, in what format are low-flow devices tracked? Spreadsheet

b. If yes, describe your tracking and distribution system :
Tracking begins as a manual tally which is transferred to an Excel spreadsheet. Distribution is made in response to requests from customers visiting District headquarters, requests to Water Efficiency Survey Staff, and to staff at special events.

C. Low-Flow Device Distribution Expenditures

	This Year	Next Year
1. Budgeted Expenditures	1000	1000
2. Actual Expenditures	0	

D. "At Least As Effective As"

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

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

LVMWD staff understands the goal of BMP2 to be the lowering of shower fixture flow rates to the 2.5 gpm level as a means of conserving water. Knowing that the 2.5 gpm rate is measured at 80 psi, and realizing that house pressures are regulated to below 80 psi to protect the interior fixtures, staff believes that these lower pressures result in a lower showerhead flow rate. To investigate this theory, staff reviewed the American Water Works Association Research Foundation's North American Residential End Use Study, a study in which Las Virgenes participated during 1997 and 1998. The study population, randomly selected, consisted of 100 homes, 94 of which were built prior to 1992. The study confirms the idea that showerheads within the Las Virgenes service area flow at less than 2.5 gpm. The finding, shown in Table 5.6, is that the average flow rate for showerheads in this area is 2.19 gpm. In this case, the "At least As Effective As" variant is the use of lower pressures to accomplish the stated goal of conserving water by reducing shower flow rates below 2.5 gpm rather than changing fixtures.

E. Comments

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **2002**

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) 25825.7
 - b. Determine other system verifiable uses (AF) 151.52
 - c. Determine total supply into the system (AF) 28137.74
 - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 0.92
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? yes
 - a. If yes, describe the leak detection program:
Visual inspection of distribution routes. Comparison of supply to sales.

B. Survey Data

1. Total number of miles of distribution system line. 395.41
2. Number of miles of distribution system line surveyed. 395.41

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	62500	62500
2. Actual Expenditures	45318	

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

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

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **2002**

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:
Las Virgenes MWD has no unmetered connections. | |
| 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? | yes |
| a. If YES, when was the feasibility study conducted? (mm/dd/yy) | 1/1/1991 |
| b. Describe the feasibility study:
During the 1970's, LVMWD determined that the conversion of existing commercial landscape irrigation from potable to recycled water use was cost effective and would be aggressively pursued. | |
| 2. Number of CII accounts with mixed-use meters. | 338 |
| 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

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:
**Las Virgenes Municipal
 Water District**

BMP Form Status:
100% Complete

Year:
2002

A. Water Use Budgets

- | | |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts: | 786 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: | 67 |
| 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? | yes |

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? | 1/1/1990 |
| b. Description of marketing / targeting strategy:
Customer request. | |
| 2. Number of Surveys Offered. | 786 |
| 3. Number of Surveys Completed. | 28 |
| 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? | |
| a. If YES, describe below:
Upon customer request. | |

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 program. Does your agency provide mixed-use accounts with landscape budgets? | yes |
| 2. Number of CII mixed-use accounts with landscape budgets. | 106 |
| 3. Do you offer landscape irrigation training? | yes |
| 4. Does your agency offer financial incentives to improve landscape water use efficiency? | no |

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:

New account information packages include a variety of brochures on water efficient plantings and irrigation.

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?

yes

7. Do you provide customer notices at the start of the irrigation season?

yes

8. Do you provide customer notices at the end of the irrigation season?

yes

D. Landscape Conservation Program Expenditures

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

E. "At Least As Effective As"

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

yes

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

In the 1970's Las Virgenes Municipal Water District (LVMWD) realized the value of total beneficial reuse of all resources. Ever since, LVMWD has aggressively pursued the development of a reclaimed water market. By requiring all non-residential landscaping located along the district's reclaimed water distribution main lines to be designed or converted to utilize reclaimed water for landscape irrigation, LVMWD now serves 556 of the 786 dedicated irrigation accounts within our service area with reclaimed water. That equates to 4,711.9 acre-feet of water out of a total of 5,711 acre-feet (83%).

F. Comments

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2002

A. Implementation

- | | |
|---|-----|
| 1. Do any energy service providers or waste water utilities in your service area offer rebates for high-efficiency washers? | no |
| a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is. | |
| 2. Does your agency offer rebates for high-efficiency washers? | yes |
| 3. What is the level of the rebate? | 100 |
| 4. Number of rebates awarded. | 47 |

B. Rebate Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	14264
2. Actual Expenditures	6030	

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

BMP 07: Public Information Programs

Reporting Unit:

Las Virgenes Municipal Water District

BMP Form Status:

100% Complete

Year:

2002

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.

Las Virgenes Municipal Water District continued its intensive outreach commitment to customers regarding water conservation benefits and practices. In cooperation with Metropolitan Water District of Southern California, LVMWD hosted two water education tours, one of the Colorado River Aqueduct and another of the State Water Project. Exposure to the complexities of water delivery and the grand scope of the infrastructure and efforts to provide local residents safe and reliable water make strong impressions on the value of water as a resource and the importance of conservation. In addition to ongoing tours available of district facilities, specialized tours were provided to leadership from local cities and local environmental groups and their volunteers. The district continued its outreach through traditional media, including newsletter ads, portions of the Water Quality Report dedicated to conservation messages, on-hold messages for incoming calls, publications, web information, presence at events, and presentations to local groups. Efforts continue to refine these programs to maximize their impact. In celebration of water awareness month, books and resource materials were provided to local libraries. Public awareness of these resources was expanded through book presentations scheduled at local City Council meetings, all of which are carried on public access TV. In addition, posters in public and school libraries displayed throughout the month depicted new materials and promoted the program. Also, the district web site now carries a comprehensive listing of all materials provided to local libraries. The second phase of the water awareness demonstration garden at the local community center got under way, with selection and installation of additional attractive water-wise plants. New publications from the district include a booklet of water-wise plants, with information and photos from the ongoing newsletter column; a card telling how to test toilets for leaks and how to estimate water loss from a leaking toilet; an information card explaining, in simple terms, how to use a water meter to test for leaks. These accompany other water conservation information included in displays and are provided to all new customers as part of their welcome packets when service is initiated. Conservation messages are further distributed in conjunction with a local weekly paper, which has agreed to carry articles prepared by the district. And, placed advertising in conjunction with the district's rebate program for High Efficiency Washers placed greater attention on the many possibilities for conserving water. Water Awareness baskets provided as auction items and prizes at silent auctions, chamber and civic events, and other venues offer yet another opportunity to promote conservation awareness and practices. With contents targeted to each specific event, these baskets include garden tools, seeds and bulbs for drought tolerant plantings, books on water-wise and xeriscape gardening, and children's books about conservation.

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	8
b. Public Service Announcement	yes	16
c. Bill Inserts / Newsletters / Brochures	yes	18
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	16
g. Speaker's Bureau	yes	10
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	270094	316837
2. Actual Expenditures	276563	

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

BMP 08: School Education Programs

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2002

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	18	2900	0
Grades 4th-6th	yes	72	2800	1
Grades 7th-8th	yes	6	150	0
High School	yes	6	150	0

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

4. When did your Agency begin implementing this program? 5/1/1991

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	34223	25709
2. Actual Expenditures	27787	

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."

Started implementation in 1978.

D. Comments

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2002

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? | yes |
|---|-----|

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered	0	0	0
b. Number of New Surveys Completed	2	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	yes	yes	yes
f. Evaluation of all water-using apparatus and processes	yes	yes	yes
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	yes	yes	yes

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? | no |
| 6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? | no |
| 7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991. | 0 |
| 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	0	0
2. Actual Expenditures	205	

C. "At Least As Effective As"

- | | |
|--|----|
| 1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? | No |
| <p style="margin-left: 40px;">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

BMP 09a: CII ULFT Water Savings

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2002

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? Check all that apply. CII Sector or subsector
- a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

Unevaluated

2. How does your agency advertise this program? Check all that apply. Newsletter
Web page
- a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

Unevaluated.

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? No
3. What is the total number of customer accounts participating in the program during the last year ? 1

CII Subsector	Number of Toilets Replaced			
	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount
4.				
a. Offices	0	0	0	0
b. Retail / Wholesale	0	0	0	0
c. Hotels	150	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
7. Participant tracking and follow-up.				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				5
b. Inadequate payback				1
c. Inadequate ULFT performance				5
d. Lack of funding				1
e. American's with Disabilities Act				5
f. Permitting				5
g. Other. Please describe in B. 9.				1

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

Need improved targeting and marketing.

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?

Improvement in level of participation. Exceeded objectives. Targeting and marketing produced results. Expenditures acceptable.

C. Conservation Program Expenditures for CII ULFT

1. CII ULFT Program: Annual Budget & Expenditure Data

	Budgeted	Actual Expenditure
a. Labor	0	500
b. Materials	0	9000
c. Marketing & Advertising	0	0
d. Administration & Overhead	0	0
e. Outside Services	0	0
f. Total	0	9500

2. CII ULFT Program: Annual Cost Sharing

a. Wholesale agency contribution	9000
b. State agency contribution	0
c. Federal agency contribution	0
d. Other contribution	0
e. Total	9000

D. Comments

Labor expenditure estimated.

BMP 11: Conservation Pricing

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2002

A. Implementation

Rate Structure Data Volumetric Rates for Water Service by Customer Class

1. Residential

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	\$14949660
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$7724572

2. Commercial

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	\$1322940
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$1803595

3. Industrial

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

4. Institutional / Government

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Non-volumetric Flat Rate
c. Total Revenue from Volumetric Rates	\$458040
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$417812

5. Irrigation

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$4912334
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$39738

6. Other

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$614033
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$30382

B. Conservation Pricing Program Expenditures

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

C. "At Least As Effective As"

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

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

D. Comments

Irrigation figures include potable water irrigation only accounts and all recycled water accounts.

BMP 12: Conservation Coordinator

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2002

A. Implementation

1. Does your Agency have a conservation coordinator? yes
2. Is this a full-time position? no
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? no
4. Partner agency's name: n/a
5. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? 30%
 - b. Coordinator's Name Scott W. Harris
 - c. Coordinator's Title Water Conservation & Reuse Supervisor
 - d. Coordinator's Experience and Number of Years 11 years in water conservation programs
 - e. Date Coordinator's position was created (mm/dd/yyyy) 9/1/1990
6. Number of conservation staff, including Conservation Coordinator. 3

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	345744	385758
2. Actual Expenditures	237101	

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

BMP 13: Water Waste Prohibition

Reporting Unit:

Las Virgenes Municipal Water District

BMP Form Status:

100% Complete

Year:

2002

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:

WASTE OF WATER PROHIBITED: No customer shall knowingly permit waste or leaks of water. Where water is wastefully or negligently used on the customer's premises, the District may discontinue the service, if such conditions are not corrected within five days after the General Manager gives the customer written notice thereof. WATER CONSERVATION: It is the desire of District to effect conservation of water resources whenever possible, such measures being consistent with legal responsibilities to seek to wisely utilize the water resources of the State of California and the District. No irrigation of new or existing parks, median strips, landscaped public areas or landscaped areas, lawns, or gardens surrounding single family homes, condominiums, town-houses, apartments, and industrial parks shall occur in such a way as to waste water. The rate and extent of application of water shall be controlled by the consumer so as to minimize run-off from the irrigated areas.

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:

LVMWD and Los Angeles
County

Ordinance 11-86-161, Section 3-4.203. Ordinance 1-88-168, Section 4-4.205.

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:
See Ordinances.

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. no

- 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. no
 - ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced. no
- 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. no
- 4. Does your agency include water softener checks in home water audit programs? no
- 5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? no

C. Water Waste Prohibition Program Expenditures

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

D. "At Least As Effective As"

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

District does not track water waste expenditures.

BMP 14: Residential ULFT Replacement Programs

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2002

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
Number of Toilets Replaced by Agency Program During Report Year		
Replacement Method	SF Accounts	MF Units
2. Rebate	294	46
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	0	0
	<hr/>	
Total	294	46

6. Describe your agency's ULFT program for single-family residences.
 Rebate \$60 per high flush volume toilet replaced

7. Describe your agency's ULFT program for multi-family residences.
 Rebate \$60 per high flush volume toilet replaced

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	28134	29646
2. Actual Expenditures	29207	

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

Accounts & Water Use

Reporting Unit Name:
**Las Virgenes Municipal Water
 District**

Submitted to CUWCC
02/07/2003

Year:
2001

A. Service Area Population Information:

1. Total service area population 66150

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	17167	15517.6	0	0
2. Multi-Family	529	1575	0	0
3. Commercial	508	1349.9	0	0
4. Industrial	0	0	0	0
5. Institutional	106	453.6	0	0
6. Dedicated Irrigation	221	925.9	0	0
7. Recycled Water	531	4408.2	0	0
8. Other	338	298.4	0	0
9. Unaccounted	NA	0	NA	0
Total	19400	24528.6	0	0
		Metered		Unmetered

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

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **2001**

A. Implementation

- | | |
|--|------------|
| 1. Based on your signed MOU date, 09/01/1991, your Agency STRATEGY DUE DATE is: | 08/31/1993 |
| 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? | 1/1/1991 |
| 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? | 1/1/1991 |

B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	75	102
2. Number of surveys completed:	29	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	no	no
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)	Odometer Wheel	
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.

Agency retains water auditor data collection forms, calculated water budgets and customer correspondence. Budget related information is databased.

C. Water Survey Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	22705	19575
2. Actual Expenditures	3138	

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

BMP 02: Residential Plumbing Retrofit

Reporting Unit:
**Las Virgenes Municipal Water
District**

BMP Form Status:
100% Complete

Year:
2001

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:

While there is no explicit enforcement mechanism, In march of 1989, the LVMWD board of directors adopted a water conservation ordinance #3-89-173 which stated that all new shower heads within the district must flow at a rate less than 2.5 gallons per minute at 80 psi.

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? no

3. Estimated percent of single-family households with low-flow showerheads: 31%

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: 75%

6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

The 2.5 gpm fixture saturation levels were determined by taking the pre-1989 housing stock (14,085 single and 6,805 multi-family dwellings) and multiplying them by a the average number of showerheads found in that setting as determined by the AWWARF North American End Use Study. For the single family sector, we combined the figures for the average number of "shower only" bathrooms and "tub/shower" bathrooms. These figures: 1.25 and 1.56, respectively, combine to suggest an average of 2.81 showerheads per dwelling. For the multi-family setting we assumed that 75% of all dwellings would have just one shower fixture, and 25% of all dwellings would have two. This resulted in an average of 1.25 showerheads per dwelling. Base housing stock (pre-1992) was determined to be 14,086 single family dwellings and 6,805 multi-family dwellings. By the end of fiscal year 00-01, we had distributed over 24,500 showerheads. But we assume an installation rate less than 100%. Installation rates for programs in our area that were carried out by the Metropolitan Water District of Southern California (MWD) were estimated by MWD. Installation rates for programs carried out by Las Virgenes are estimated at 70% prior to 1998, and 100% from that point on. The change in installation rate is based on the perception that the combination of normal to surplus rainfall and "by customer request only" distribution programs has resulted in people only taking showerheads when they plan to install them. The resulting number of showerheads installed is 18,561. We assumed that because owners of multi-family complexes have a greater financial incentive to install low flow showerheads, without much consideration for shower quality, it is safe to assume a 75% installation

rate. This results in an estimated installation of 6,380 low flow showerheads in the multi-family sector. The remaining 12,181 fixtures are then credited to the single family sector, allowing us to calculate a 31% saturation rate.

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? 1/1/1990

b. Describe your targeting/ marketing strategy.
Advertising in newspapers, on District bills, voice mail on District phone system, special events held throughout the year.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	33	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?		yes

a. If YES, in what format are low-flow devices tracked? Spreadsheet

b. If yes, describe your tracking and distribution system :
Tracking begins as a manual tally which is transferred to an Excel spreadsheet. Distribution is made in response to requests from customers visiting District headquarters, requests to Water Efficiency Survey Staff, and to staff at special events.

C. Low-Flow Device Distribution Expenditures

	This Year	Next Year
1. Budgeted Expenditures	1000	1000
2. Actual Expenditures	0	

D. "At Least As Effective As"

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

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

LVMWD staff understands the goal of BMP2 to be the lowering of shower fixture flow rates to the 2.5 gpm level as a means of conserving water. Knowing that the 2.5 gpm rate is measured at 80 psi, and realizing that house pressures are regulated to below 80 psi to protect the interior fixtures, staff believes that these lower pressures result in a lower showerhead flow rate. To investigate this theory, staff reviewed the American Water Works Association Research Foundation's North American Residential End Use Study, a study in which Las Virgenes participated during 1997 and 1998. The study population, randomly selected, consisted of 100 homes, 94 of which were built prior to 1992. The study confirms the idea that showerheads within the Las Virgenes service area flow at less than 2.5 gpm. The finding, shown in Table 5.6, is that the average flow rate for showerheads in this area is 2.19 gpm. In this case, the "At least As Effective As" variant is the use of lower pressures to accomplish the stated goal of conserving water by reducing shower flow rates below 2.5 gpm rather than changing fixtures.

E. Comments

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:	BMP Form Status:	Year:
Las Virgenes Municipal Water District	100% Complete	2001

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) | 24528.6 |
| b. Determine other system verifiable uses (AF) | 558.15 |
| c. Determine total supply into the system (AF) | 26764.83 |
| 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? | yes |
| a. If yes, describe the leak detection program:
Visual inspection of distribution routes. Comparison of water delivered to the system vs. water sales. | |

B. Survey Data

- | | |
|--|--------|
| 1. Total number of miles of distribution system line. | 390.94 |
| 2. Number of miles of distribution system line surveyed. | 390.94 |

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	62500	62500
2. Actual Expenditures	52876	

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

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

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **2001**

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:
Las Virgenes Municipal Water District has no unmetered connections.
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? yes
 - a. If YES, when was the feasibility study conducted? 1/1/1991
(mm/dd/yy)
 - b. Describe the feasibility study:
During the 1970's, LVMWD determined that the conversion of existing commercial landscape irrigation from potable to recycled water use was cost effective and would be aggressively pursued.
2. Number of CII accounts with mixed-use meters. 339
3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 1

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

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **2001**

A. Water Use Budgets

- | | |
|--|-----|
| 1. Number of Dedicated Irrigation Meter Accounts: | 752 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: | 39 |
| 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? | yes |

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? | 1/1/1991 |
| b. Description of marketing / targeting strategy:
Customer request | |
| 2. Number of Surveys Offered. | 752 |
| 3. Number of Surveys Completed. | 0 |
| 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:
Upon customer request. | |

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 program. Does your agency provide mixed-use accounts with landscape budgets? | yes |
| 2. Number of CII mixed-use accounts with landscape budgets. | 106 |
| 3. Do you offer landscape irrigation training? | yes |
| 4. Does your agency offer financial incentives to improve landscape water use efficiency? | no |

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:
 New account information packages include a variety of brochures about water efficient planting and irrigation.

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? yes

7. Do you provide customer notices at the start of the irrigation season? yes

8. Do you provide customer notices at the end of the irrigation season? yes

D. Landscape Conservation Program Expenditures

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

E. "At Least As Effective As"

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

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

In the 1970's Las Virgenes Municipal Water District (LVMWD) realized the value of total beneficial reuse of all resources. Ever since, LVMWD has aggressively pursued the development of a reclaimed water market. By requiring all non-residential landscaping located along the district's reclaimed water distribution main lines to be designed or converted to utilize reclaimed water for landscape irrigation, LVMWD now serves 531 of the 752 dedicated irrigation accounts within our service area with reclaimed water. That equates to 4,408.2 acre-feet of water out of a total of 5,334.1 acre-feet (83%).

F. Comments

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2001

A. Implementation

- | | |
|---|----|
| 1. Do any energy service providers or waste water utilities in your service area offer rebates for high-efficiency washers? | no |
| a. If YES, describe the offerings and incentives as well as who the energy/waste water utility provider is. | |
| 2. Does your agency offer rebates for high-efficiency washers? | no |
| 3. What is the level of the rebate? | 0 |
| 4. Number of rebates awarded. | 0 |

B. Rebate 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

BMP 07: Public Information Programs

Reporting Unit:

Las Virgenes Municipal Water District

BMP Form Status:

100% Complete

Year:

2001

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.

Las Virgenes Municipal Water District maintained its active outreach strategies to encourage conservation and educate local residents about the many benefits of wise water use. Outreach continues to be pursued through diverse media and mechanisms. Additional outreach staff made possible regular, bi-monthly publication of the district's newsletter, The Current Flow. Frequently, newsletter articles focus on water conservation techniques. During this reporting period, the district's water conservation unit was highlighted in a Team Focus article. Regular columns were established focusing on fascinating water facts, to give readers a better perspective on water use and quantities associated with water, and a series on Water Wise Plants. The planting series is consolidated and maintained within the Conservation Section of the district web site.

Conservation information was greatly expanded on the district web site, including publication of the simple irrigation scheduler printed last year.

The district continues to expand its Library Program, which provides publications and media to local school and public libraries, all focused on water history, water policies and politics, conservation, water-wise landscaping, and similar subjects. Continuing to refine outreach efforts, the district incorporates a water awareness challenge in booths at events.

An emulation of the old-fashioned floating duck carnival game attracts players, who answer a simple water awareness question to win a prize.

This participatory element draws people in and gives a sense of achievement in playing the game to win a prize. All prizes have a water awareness theme. Pencils state, Save water. It's the WRITE thing to do. Rulers are imprinted, Make it a RULE to save water. Buckets say, SAVE WATER. Every drop in the bucket counts.

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	2
b. Public Service Announcement	yes	12
c. Bill Inserts / Newsletters / Brochures	yes	20
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	11
g. Speaker's Bureau	yes	15
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	313982	270094
2. Actual Expenditures	174399	

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

BMP 08: School Education Programs

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2001

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	13	815	0
Grades 4th-6th	yes	72	2800	1
Grades 7th-8th	yes	6	1900	0
High School	yes	6	1500	0

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

4. When did your Agency begin implementing this program? 5/1/1991

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	40769	34223
2. Actual Expenditures	31526	

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."

Started implementation in 1978.

D. Comments

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2001

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? | yes |
|---|-----|

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered	3	0	3
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	yes	yes	yes
f. Evaluation of all water-using apparatus and processes	yes	yes	yes
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	yes	yes	yes

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? | no |
| 6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? | no |
| 7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991. | 0 |
| 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	4772	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

BMP 09a: CII ULFT Water Savings

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status: Year:
99% Complete 2001

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? Check all that apply. CII Sector or subsector
a. Describe which method you found to be the most effective overall, and which was the most effective per dollar expended.

Unevaluated.

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

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

Unevaluated.

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? No
3. What is the total number of customer accounts participating in the program during the last year ? 0

CII Subsector	Number of Toilets Replaced			
	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount
4.				
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? No

a. If yes, check all that apply.

7. Participant tracking and follow-up. 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 5
- b. Inadequate payback 1
- c. Inadequate ULFT performance 5
- d. Lack of funding 1
- e. American's with Disabilities Act 5
- f. Permitting 5
- g. Other. Please describe in B. 9. 1

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

Need improved targeting and marketing.

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?

Unsuccessful. Did not achieve objectives. Need to improve targeting and marketing methods.

C. Conservation Program Expenditures for CII ULFT

1. CII ULFT Program: Annual Budget & Expenditure Data

	Budgeted	Actual Expenditure
a. Labor	125	0
b. Materials	1200	0
c. Marketing & Advertising	0	0
d. Administration & Overhead	200	0
e. Outside Services	0	0
f. Total	1525	0

2. CII ULFT Program: Annual Cost Sharing

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

D. Comments

BMP 12: Conservation Coordinator

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **2001**

A. Implementation

1. Does your Agency have a conservation coordinator? yes
2. Is this a full-time position? no
3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? no
4. Partner agency's name: n/a
5. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? 30%
 - b. Coordinator's Name Scott W. Harris
 - c. Coordinator's Title Water Conservation and Reuse Supervisor
 - d. Coordinator's Experience and Number of Years 10 years in water conservation
 - e. Date Coordinator's position was created (mm/dd/yyyy) 9/1/1990
6. Number of conservation staff, including Conservation Coordinator. 3

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	252082	345744
2. Actual Expenditures	280638	

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

BMP 13: Water Waste Prohibition

Reporting Unit: **Las Virgenes Municipal Water District** BMP Form Status: **100% Complete** Year: **2001**

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:

WASTE OF WATER PROHIBITED: No customer shall knowingly permit waste or leaks of water. Where water is wastefully or negligently used on the customer's premises, the District may discontinue the service, if such conditions are not corrected within five days after the General Manager gives the customer written notice thereof. WATER CONSERVATION: It is the desire of District to effect conservation of water resources whenever possible, such measures being consistent with legal responsibilities to seek to wisely utilize the water resources of the State of California and the District. No irrigation of new or existing parks, median strips, landscaped public areas or landscaped areas, lawns, or gardens surrounding single family homes, condominiums, town-houses, apartments, and industrial parks shall occur in such a way as to waste water. The rate and extent of application of water shall be controlled by the consumer so as to minimize run-off from the irrigated areas.

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:

LVMWD and Los Angeles County	Ordinance 11-86-161, Section 3-4.203. Ordinance 1-88-168, Section 4-4.205.
------------------------------	--

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:
See Ordinances.

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. no
 - 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. no
 - ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced. no
 - 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. no
4. Does your agency include water softener checks in home water audit programs? no
5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? no

C. Water Waste Prohibition Program Expenditures

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

D. "At Least As Effective As"

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

District does not track water waste expenditures.

BMP 14: Residential ULFT Replacement Programs

Reporting Unit:
Las Virgenes Municipal Water District

BMP Form Status:
100% Complete

Year:
2001

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

Number of Toilets Replaced by Agency Program During Report Year

Replacement Method	SF Accounts	MF Units
2. Rebate	323	56
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	0	0
Total	323	56

6. Describe your agency's ULFT program for single-family residences.
 Rebate \$60 per high flush volume toilet replaced.

7. Describe your agency's ULFT program for multi-family residences.
 Rebate \$60 per high flush volume toilet replaced.

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	43983	28134
2. Actual Expenditures	31079	

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

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

Reporting Unit:
Las Virgenes Municipal Water District

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

Las Virgenes Municipal Water District to Implement Targeting/Marketing Program by:	1999		
		<u>Single-Family</u>	<u>Multi-Family</u>
Year Las Virgenes Municipal Water District Reported Implementing Targeting/Marketing Program:	307	307	
Las Virgenes Municipal Water District Met Targeting/Marketing Coverage Requirement:	YES	YES	

Test for Condition 2

			<u>Single-Family</u>	<u>Multi-Family</u>
Survey Program to Start by:	1998	Residential Survey Offers (%)	0.90%	2.97%
Reporting Period:	03-04	Survey Offers \geq 20%	NO	NO

Test for Condition 3

	Completed Residential Surveys	
	<u>Single Family</u>	<u>Multi-Family</u>
Total Completed Surveys 1999 - 2004:	136	1,206
Past Credit for Surveys Completed Prior to 1999 (Implementation of Reporting Database):	1,367	660
Total + Credit	1,503	1,866
Residential Accounts in Base Year	16,671	6,862
Las Virgenes Municipal Water District Survey Coverage as % of Base Year Residential Accounts	9.02%	27.19%
Coverage Requirement by Year 7 of Implementation per Exhibit 1	7.90%	7.90%
Las Virgenes Municipal Water District on Schedule to Meet 10-Year Coverage Requirement	YES	YES

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:
Las Virgenes Municipal Water District
MOU Exhibit 1 Coverage Requirement

Reporting Period:
03-04

No exemption request filed

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

Yes

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	91.00%	YES	91.00%	YES
2000	99-00	92.00%	YES	92.00%	YES
2001	01-02	31.00%	NO	75.00%	YES
2002	01-02	31.00%	NO	75.00%	NO
2003	03-04	31.00%	NO	75.00%	YES
2004	03-04	32.00%	NO	75.00%	YES

Test for Condition 2

Report Year	Report Period	Las Virgenes Municipal Water District 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

<u>1992 SF Accounts</u>	<u>Num. Showerheads Distributed to SF Accounts</u>	<u>Single-Family Coverage Ratio</u>	<u>SF Coverage Ratio > 10%</u>
14,086	51	0.4%	NO
<u>1992 MF Accounts</u>	<u>Num. Showerheads Distributed to MF Accounts</u>	<u>Multi-Family Coverage Ratio</u>	<u>MF Coverage Ratio > 10%</u>
6,805	583	8.6%	NO

BMP 2 COVERAGE STATUS SUMMARY:**Water supplier has not met one or more coverage requirements for this BMP.**

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

Reporting Unit:
Las Virgenes Municipal Water District

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	95.1%	No	NO
2000	99-00	YES	88.4%	Yes	NO
2001	01-02	YES	93.7%	No	NO
2002	01-02	YES	92.3%	No	NO
2003	03-04	YES	95.9%	No	NO
2004	03-04	YES	90.2%	No	NO

BMP 3 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

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

Reporting Unit:
**Las Virgenes Municipal
Water District**

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

Test for Compliance

Total Meter Retrofits Reported through 2004

No. of Unmetered Accounts in Base Year

Meter Retrofit Coverage as % of Base Year Unmetered Accounts

Coverage 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.

BMP 05 Coverage: Large Landscape Conservation Programs and Incentives

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
03-04

MOU Exhibit 1 Coverage Requirement

No exemption request filed

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

Yes

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

<u>Year</u>	<u>Report Period</u>	<u>BMP 5 Implementation Year</u>	<u>No. of Irrigation Meter Accounts</u>	<u>No. of Irrigation Accounts with Budgets</u>	<u>Budget Coverage Ratio</u>	<u>90% Coverage Met by Year 4</u>
1999	99-00	1	723	38	5.3%	NA
2000	99-00	2	735	39	5.3%	NA
2001	01-02	3	752	39	5.2%	NA
2002	01-02	4	786	67	8.5%	No
2003	03-04	5	797	70	8.8%	No
2004	03-04	6	811	87	10.7%	No

Test for Condition 2a (survey offers)

Select Reporting Period:	03-04
Large Landscape Survey Offers as % of Mixed Use Meter CII Accounts	15.9%
Survey Offers Equal or Exceed 20% Coverage Requirement	NO

Test for Condition 2a (surveys completed)

Total Completed Landscape Surveys Reported through	47
Credit for Surveys Completed Prior to Implementation of Reporting Database	25
Total + Credit	72
CII Accounts in Base Year	628
RU Survey Coverage as a % of Base Year CII Accounts	11.5%
Coverage Requirement by Year of Implementation per Exhibit 1	6.3%
RU on Schedule to Meet 10 Year Coverage Requirement	YES

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	YES	106
2000	99-00	2	YES	106
2001	01-02	3	YES	106
2002	01-02	4	YES	106
2003	03-04	5	YES	104
2004	03-04	6	YES	104

<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	341	1
2000	99-00	2	340	1
2001	01-02	3	339	1
2002	01-02	4	338	
2003	03-04	5	337	2
2004	03-04	6	337	

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	NO		
2002	01-02	4	NO		
2003	03-04	5	NO		
2004	03-04	6	NO		
<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.

BMP 06 Coverage: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:
Las Virgenes Municipal Water District

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 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	NO	NO	
2001	01-02	3	NO	NO	
2002	01-02	4	NO	YES	100.00
2003	03-04	5	NO	YES	300.00
2004	03-04	6	NO	YES	100.00

<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		YES
2001	01-02	3		YES
2002	01-02	4	47	YES
2003	03-04	5	430	YES
2004	03-04	6	275	YES

BMP 6 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

BMP 07 Coverage: Public Information Programs

Reporting Unit:
Las Virgenes Municipal Water District

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 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.

BMP 08 Coverage: School Education Programs

Reporting Unit:
Las Virgenes Municipal Water District

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 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	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 8 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

BMP 09 Coverage: Conservation Programs for CII Accounts

Reporting Unit:
Las Virgenes Municipal Water District

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

<u>Year</u>	<u>Report Period</u>	<u>BMP 9 Implementation Year</u>	<u>Ranked Com. Use</u>	<u>Ranked Ind. Use</u>	<u>Ranked Inst. Use</u>
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	6	0	0
Credit for Surveys Completed Prior to Implementation of Reporting Databases	54		
Total + Credit	60		
CII Accounts in Base Year	540		88
RU Survey Coverage as % of Base Year CII Accounts	11.1%		
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	YES	NO	NO

Test for Condition 2a

<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>Performance Target Savings Coverage Requirement</u>	<u>Coverage Requirement Met</u>
1999	99-00	1			0.5%	NO
2000	99-00	2			1.0%	NO
2001	01-02	3			1.7%	NO
2002	01-02	4			2.4%	NO
2003	03-04	5			3.3%	NO
2004	03-04	6	5	0.4%	4.2%	NO

Test for Condition 2c

Total BMP 9 Surveys + Credit	60
BMP 9 Survey Coverage	9.6%
BMP 9 Performance Target Coverage	0.4%
BMP 9 Survey + Performance Target Coverage	9.9%
Combined Coverage Equals or Exceeds Coverage Requirement?	YES

BMP 9 COVERAGE STATUS SUMMARY:
Water supplier is meeting coverage requirements for this BMP.

BMP 11 Coverage: Conservation Pricing

Reporting Unit:
Las Virgenes Municipal Water District

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 long run 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.

BMP 12 Coverage: Conservation Coordinator

Reporting Unit:
Las Virgenes Municipal Water District

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

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	3
2002	01-02	YES	3
2003	03-04	YES	3
2004	03-04	YES	3

BMP 12 COVERAGE STATUS SUMMARY:
Water supplier is meeting coverage requirements for this BMP.

BMP 13 Coverage: Water Waste Prohibition

Reporting Unit:
Las Virgenes Municipal Water District

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 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	YES
2000	yes	yes	yes	yes	yes	no	YES
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.

BMP 14 Coverage: Residential ULFT Replacement Programs

Reporting Unit: **Las Virgenes Municipal Water District**

MOU Exhibit 1 Coverage Requirement

A 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.

Status: Water supplier is meeting coverage requirements for this BMP. as of 2004

<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			56.91	1062.40
1999	Yes	No	No	162.39	1272.31
2000	Yes	No	No	309.10	1485.16
2001	Yes	No	No	490.61	1700.73
2002	Yes	No	No	701.26	1917.68
2003	Yes	No	No	936.08	2135.03
2004	Yes	No	No	1190.72	2385.89
2005	No	No	No	1461.37	
2006	No	No	No	1744.71	
2007	No	No	No	2037.82	

*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:

Water supplier is meeting coverage requirements for this BMP.

BMP 14 Coverage: Residential ULFT Replacement Programs

Reporting Unit: Las Virgenes Municipal Water District

BMP 14 Coverage Calculation Detail: Retrofit on Resale (ROR) Ordinance Water Savings

	Single Family	Multi-Family
1992 Housing Stock		
Average rate of natural replacement (% of remaining stock)	.04	.04
Average rate of housing demolition (% of remaining stock)	.005	.005
Estimated Housing Units with 3.5+ gpf Toilets in 1997	11497.31	5554.39
Average resale rate	.0446	.0902
Average persons per unit		
Average toilets per unit		
Average savings per home (gpd; from Exhibit 6)	45.8	59.3

Single Family Housing Units

Coverage Year	Unretrofitted Houses	Houses Sold	Houses Unsold	Sold and Retrofitted	Sold and Already Retrofitted	Unsold and Retrofitted	Gross ROR Savings (AFY)	Nat'l Replacement Only Savings (AFY)	Net ROR Savings (AFY)
1998	10549.91	510.22	10929.61	510.22		437.18	181.38	156.26	25.12
1999	9680.58	507.66	10874.96	468.17	39.49	401.16	225.98	178.80	47.18
2000	8882.88	505.13	10820.58	429.59	75.53	368.10	266.89	200.44	66.46
2001	8150.91	502.60	10766.48	394.20	108.41	337.77	304.44	221.22	83.22
2002	7479.26	500.09	10712.65	361.71	138.38	309.94	338.89	241.17	97.72
2003	6862.96	497.59	10659.08	331.91	165.68	284.40	370.51	260.33	110.18
2004	6297.43	495.10	10605.79	304.56	190.54	260.96	399.51	278.72	120.79
2005	5778.51	492.62	10552.76	279.46	213.16	239.46	426.13	296.39	129.74
2006	5302.35	490.16	10500.00	256.43	233.73	219.73	450.56	313.35	137.21
2007	4865.43	487.71	10447.50	235.30	252.41	201.62	472.97	329.63	143.33

Multi Family Housing Units

Coverage Year	Unretrofitted Houses	Houses Sold	Houses Unsold	Sold and Retrofitted	Sold and Already Retrofitted	Unsold and Retrofitted	Gross ROR Savings (AFY)	Nat'l Replacement Only Savings (AFY)	Net ROR Savings (AFY)
1998	4854.77	498.50	5028.12	498.50		201.12	129.52	97.74	31.78
1999	4243.27	496.01	5002.98	435.71	60.30	175.79	170.14	111.84	58.30
2000	3708.79	493.53	4977.96	380.83	112.70	153.65	205.63	125.37	80.26
2001	3241.63	491.06	4953.07	332.86	158.20	134.30	236.66	138.37	98.29
2002	2833.32	488.61	4928.31	290.93	197.67	117.38	263.78	150.85	112.92
2003	2476.44	486.16	4903.67	254.29	231.88	102.59	287.48	162.84	124.64
2004	2164.51	483.73	4879.15	222.26	261.47	89.67	308.20	174.34	133.85
2005	1891.87	481.31	4854.75	194.26	287.05	78.38	326.30	185.39	140.91
2006	1653.57	478.91	4830.48	169.79	309.11	68.50	342.13	196.00	146.13
2007	1445.29	476.51	4806.33	148.41	328.11	59.88	355.96	206.19	149.78

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

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
01-02

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

Las Virgenes Municipal Water District to Implement Targeting/Marketing Program by:	1999		
		<u>Single-Family</u>	<u>Multi-Family</u>
Year Las Virgenes Municipal Water District Reported Implementing Targeting/Marketing Program:	307	307	
Las Virgenes Municipal Water District Met Targeting/Marketing Coverage Requirement:	NO	NO	

Test for Condition 2

			<u>Single-Family</u>	<u>Multi-Family</u>
Survey Program to Start by:	1998	Residential Survey Offers (%)	0.90%	2.97%
Reporting Period:	01-02	Survey Offers \geq 20%	NO	NO

Test for Condition 3

	Completed Residential Surveys	
	<u>Single Family</u>	<u>Multi-Family</u>
Total Completed Surveys 1999 - 2002:	114	1
Past Credit for Surveys Completed Prior to 1999 (Implementation of Reporting Database):	1,367	660
Total + Credit	1,481	661
Residential Accounts in Base Year	16,671	6,862
Las Virgenes Municipal Water District Survey Coverage as % of Base Year Residential Accounts	8.88%	9.63%
Coverage Requirement by Year 5 of Implementation per Exhibit 1	4.90%	4.90%
Las Virgenes Municipal Water District on Schedule to Meet 10-Year Coverage Requirement	YES	YES

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:
Las Virgenes Municipal Water District
MOU Exhibit 1 Coverage Requirement

Reporting Period:
01-02

No exemption request filed

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

Yes

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	<u>Single-Family</u>		<u>Multi-Family</u>	
		<u>Reported Saturation</u>	<u>Saturation ≥ 75%?</u>	<u>Reported Saturation</u>	<u>Saturation ≥ 75%?</u>
1999	99-00	91.00%	YES	91.00%	YES
2000	99-00	92.00%	YES	92.00%	YES
2001	01-02	31.00%	NO	75.00%	YES
2002	01-02	31.00%	NO	75.00%	NO
2003	03-04	31.00%	NO	75.00%	YES
2004	03-04	32.00%	NO	75.00%	YES

Test for Condition 2

<u>Report Year</u>	<u>Report Period</u>	<u>Las Virgenes Municipal Water District has ordinance requiring showerhead retrofit?</u>
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: 01-02

<u>1992 SF Accounts</u>	<u>Num. Showerheads Distributed to SF Accounts</u>	<u>Single-Family Coverage Ratio</u>	<u>SF Coverage Ratio > 10%</u>
14,086	50	0.4%	NO
<u>1992 MF Accounts</u>	<u>Num. Showerheads Distributed to MF Accounts</u>	<u>Multi-Family Coverage Ratio</u>	<u>MF Coverage Ratio > 10%</u>
6,805			NO

BMP 2 COVERAGE STATUS SUMMARY:**Water supplier has not met one or more coverage requirements for this BMP.**

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

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
01-02

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	95.1%	No	NO
2000	99-00	YES	88.4%	Yes	NO
2001	01-02	YES	93.7%	No	NO
2002	01-02	YES	92.3%	No	NO
2003	03-04	YES	95.9%	No	NO
2004	03-04	YES	90.2%	No	NO

BMP 3 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

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

Reporting Unit:
**Las Virgenes Municipal
Water District**

Reporting Period:
01-02

MOU Exhibit 1 Coverage Requirement

No exemption request filed

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

No

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

Total Meter Retrofits Reported through 2002

No. of Unmetered Accounts in Base Year

Meter Retrofit Coverage as % of Base Year Unmetered Accounts

Coverage Requirement by Year 4 of Implementation per Exhibit 1

24.0%

RU on Schedule to meet 10 Year Coverage Requirement

YES

BMP 4 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

BMP 05 Coverage: Large Landscape Conservation Programs and Incentives

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
01-02

MOU Exhibit 1 Coverage Requirement

No exemption request filed

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

Yes

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

<u>Year</u>	<u>Report Period</u>	<u>BMP 5 Implementation Year</u>	<u>No. of Irrigation Meter Accounts</u>	<u>No. of Irrigation Accounts with Budgets</u>	<u>Budget Coverage Ratio</u>	<u>90% Coverage Met by Year 4</u>
1999	99-00	1	723	38	5.3%	NA
2000	99-00	2	735	39	5.3%	NA
2001	01-02	3	752	39	5.2%	NA
2002	01-02	4	786	67	8.5%	No
2003	03-04	5	797	70	8.8%	No
2004	03-04	6	811	87	10.7%	No

Test for Condition 2a (survey offers)

Select Reporting Period:	01-02
Large Landscape Survey Offers as % of Mixed Use Meter CII Accounts	244.9%
Survey Offers Equal or Exceed 20% Coverage Requirement	YES

Test for Condition 2a (surveys completed)

Total Completed Landscape Surveys Reported through	30
Credit for Surveys Completed Prior to Implementation of Reporting Database	25
Total + Credit	55
CII Accounts in Base Year	628
RU Survey Coverage as a % of Base Year CII Accounts	8.8%
Coverage Requirement by Year of Implementation per Exhibit 1	3.6%
RU on Schedule to Meet 10 Year Coverage Requirement	YES

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	YES	106
2000	99-00	2	YES	106
2001	01-02	3	YES	106
2002	01-02	4	YES	106
2003	03-04	5	YES	104
2004	03-04	6	YES	104

<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	341	1
2000	99-00	2	340	1
2001	01-02	3	339	1
2002	01-02	4	338	
2003	03-04	5	337	2
2004	03-04	6	337	

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	NO		
2002	01-02	4	NO		
2003	03-04	5	NO		
2004	03-04	6	NO		
<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.

BMP 06 Coverage: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
01-02

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	NO	NO	
2001	01-02	3	NO	NO	
2002	01-02	4	NO	YES	100.00
2003	03-04	5	NO	YES	300.00
2004	03-04	6	NO	YES	100.00

<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		YES
2001	01-02	3		YES
2002	01-02	4	47	YES
2003	03-04	5	430	YES
2004	03-04	6	275	YES

BMP 6 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

BMP 07 Coverage: Public Information Programs

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
01-02

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.

BMP 08 Coverage: School Education Programs

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
01-02

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	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 8 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

BMP 09 Coverage: Conservation Programs for CII Accounts

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
01-02

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

<u>Year</u>	<u>Report Period</u>	<u>BMP 9 Implementation Year</u>	<u>Ranked Com. Use</u>	<u>Ranked Ind. Use</u>	<u>Ranked Inst. Use</u>
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 2002	2	0	0
Credit for Surveys Completed Prior to Implementation of Reporting Databases	54		
Total + Credit	56		
CII Accounts in Base Year	540		88
RU Survey Coverage as % of Base Year CII Accounts	10.4%		
Coverage Requirement by Year 4 of Implementation per Exhibit 1	2.4%	2.4%	2.4%
RU on Schedule to Meet 10 Year Coverage Requirement	YES	NO	NO

Test for Condition 2a

<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>Performance Target Savings Coverage Requirement</u>	<u>Coverage Requirement Met</u>
1999	99-00	1			0.5%	NO
2000	99-00	2			1.0%	NO
2001	01-02	3			1.7%	NO
2002	01-02	4			2.4%	NO
2003	03-04	5			3.3%	NO
2004	03-04	6	5	0.4%	4.2%	NO

Test for Condition 2c

Total BMP 9 Surveys + Credit	56
BMP 9 Survey Coverage	8.9%
BMP 9 Performance Target Coverage	
BMP 9 Survey + Performance Target Coverage	8.9%
Combined Coverage Equals or Exceeds Coverage Requirement?	YES

BMP 9 COVERAGE STATUS SUMMARY:
Water supplier is meeting coverage requirements for this BMP.

BMP 11 Coverage: Conservation Pricing

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
01-02

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 long run 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.

BMP 12 Coverage: Conservation Coordinator

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
01-02

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	3
2002	01-02	YES	3
2003	03-04	YES	3
2004	03-04	YES	3

BMP 12 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

BMP 13 Coverage: Water Waste Prohibition

Reporting Unit:
Las Virgenes Municipal Water District

Reporting Period:
01-02

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	YES
2000	yes	yes	yes	yes	yes	no	YES
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.

BMP 14 Coverage: Residential ULFT Replacement Programs

Reporting Unit: **Las Virgenes Municipal Water District**

MOU Exhibit 1 Coverage Requirement

A 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.

Status: Water supplier is meeting coverage requirements for this BMP. as of 2004

<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			56.91	1062.40
1999	Yes	No	No	162.39	1272.31
2000	Yes	No	No	309.10	1485.16
2001	Yes	No	No	490.61	1700.73
2002	Yes	No	No	701.26	1917.68
2003	Yes	No	No	936.08	2135.03
2004	Yes	No	No	1190.72	2385.89
2005	No	No	No	1461.37	
2006	No	No	No	1744.71	
2007	No	No	No	2037.82	

*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:

Water supplier is meeting coverage requirements for this BMP.

BMP 14 Coverage: Residential ULFT Replacement Programs

Reporting Unit: Las Virgenes Municipal Water District

BMP 14 Coverage Calculation Detail: Retrofit on Resale (ROR) Ordinance Water Savings

	Single Family	Multi-Family
1992 Housing Stock		
Average rate of natural replacement (% of remaining stock)	.04	.04
Average rate of housing demolition (% of remaining stock)	.005	.005
Estimated Housing Units with 3.5+ gpf Toilets in 1997	11497.31	5554.39
Average resale rate	.0446	.0902
Average persons per unit		
Average toilets per unit		
Average savings per home (gpd; from Exhibit 6)	45.8	59.3

Single Family Housing Units

Coverage Year	Unretrofitted Houses	Houses Sold	Houses Unsold	Sold and Retrofitted	Sold and Already Retrofitted	Unsold and Retrofitted	Gross ROR Savings (AFY)	Nat'l Replacement Only Savings (AFY)	Net ROR Savings (AFY)
1998	10549.91	510.22	10929.61	510.22		437.18	181.38	156.26	25.12
1999	9680.58	507.66	10874.96	468.17	39.49	401.16	225.98	178.80	47.18
2000	8882.88	505.13	10820.58	429.59	75.53	368.10	266.89	200.44	66.46
2001	8150.91	502.60	10766.48	394.20	108.41	337.77	304.44	221.22	83.22
2002	7479.26	500.09	10712.65	361.71	138.38	309.94	338.89	241.17	97.72
2003	6862.96	497.59	10659.08	331.91	165.68	284.40	370.51	260.33	110.18
2004	6297.43	495.10	10605.79	304.56	190.54	260.96	399.51	278.72	120.79
2005	5778.51	492.62	10552.76	279.46	213.16	239.46	426.13	296.39	129.74
2006	5302.35	490.16	10500.00	256.43	233.73	219.73	450.56	313.35	137.21
2007	4865.43	487.71	10447.50	235.30	252.41	201.62	472.97	329.63	143.33

Multi Family Housing Units

Coverage Year	Unretrofitted Houses	Houses Sold	Houses Unsold	Sold and Retrofitted	Sold and Already Retrofitted	Unsold and Retrofitted	Gross ROR Savings (AFY)	Nat'l Replacement Only Savings (AFY)	Net ROR Savings (AFY)
1998	4854.77	498.50	5028.12	498.50		201.12	129.52	97.74	31.78
1999	4243.27	496.01	5002.98	435.71	60.30	175.79	170.14	111.84	58.30
2000	3708.79	493.53	4977.96	380.83	112.70	153.65	205.63	125.37	80.26
2001	3241.63	491.06	4953.07	332.86	158.20	134.30	236.66	138.37	98.29
2002	2833.32	488.61	4928.31	290.93	197.67	117.38	263.78	150.85	112.92
2003	2476.44	486.16	4903.67	254.29	231.88	102.59	287.48	162.84	124.64
2004	2164.51	483.73	4879.15	222.26	261.47	89.67	308.20	174.34	133.85
2005	1891.87	481.31	4854.75	194.26	287.05	78.38	326.30	185.39	140.91
2006	1653.57	478.91	4830.48	169.79	309.11	68.50	342.13	196.00	146.13
2007	1445.29	476.51	4806.33	148.41	328.11	59.88	355.96	206.19	149.78