

APPENDIX D

**IRVINE RANCH WATER DISTRICT
BEST MANAGEMENT PRACTICES ANNUAL REPORTS
2003-2004**

Reported as of 6/27/05

Water Supply & Reuse

Reporting Unit:
Irvine Ranch Water District

Year:
2003

Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
MWDSC-Treated	19840.2	Imported
MWDSC-Untreated	17074.8	Imported
MWDSC-Reclaimed	143	Recycled
OCWD	35907.7	Groundwater
MWRP	15048.6	Recycled
Los Alisos Plant	2056.5	Recycled
Well 78 & ET 1	2132.3	Groundwater
Wells	113.8	Groundwater

Total AF: 92316.9

Reported as of 6/27/05

Accounts & Water Use

Reporting Unit Name:
Irvine Ranch Water District

Submitted to
CUWCC
01/25/2005

Year:
2003

A. Service Area Population Information:

1. Total service area population 300700

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	44878	19962.1	0	0
2. Multi-Family	28603	9715.6	0	0
3. Commercial	3571	7228.3	0	0
4. Industrial	1047	6566.3	0	0
5. Institutional	192	2489.6	0	0
6. Dedicated Irrigation	1803	5238.8	0	0
7. Recycled Water	3356	17748.4	0	0
8. Other	101	11167	0	0
9. Unaccounted	NA	3769.4	NA	0
Total	83551	83885.5	0	0
		Metered		Unmetered

Reported as of 6/27/05

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

Reporting Unit: **Irvine Ranch Water District** BMP Form Status: **100% Complete** Year: **2003**

A. Implementation

- | | |
|--|------------|
| 1. Based on your signed MOU date, 08/26/1991, your Agency STRATEGY DUE DATE is: | 08/25/1993 |
| 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? | 7/14/1990 |
| 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? | 7/14/1990 |

B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	36	0
2. Number of surveys completed:	36	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 | no | no |

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.

Surveys are tracked in utility billing database. Costs calculated as needed.

C. Water Survey Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	1200	5000
2. Actual Expenditures	5783	

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."

IRWD's billing system incorporated individualized water budgets, sending a price signal when the customer has a leak or is over-watering. IRWD responds with on-site surveys for high bill customers as requested.

E. Comments

IRWD also operated a fall campaign targeted specifically at residential customers exceeding fall water budgets.

Reported as of 6/27/05

BMP 02: Residential Plumbing Retrofit

Reporting Unit: **Irvine Ranch 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:

2. Has your agency satisfied the 75% saturation requirement for single-family housing units? yes

3. Estimated percent of single-family households with low-flow showerheads: 91.7%

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: 79.9%

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

In 2000, MWDOC and MWD conducted the OC Saturation Survey and found countywide saturation rates of 66.9% in SF and 59.8% in mf dwelling units. Saturation rates reported above represent linear extrapolations of saturation results for 02-03.

B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? yes

a. If YES, when did your agency begin implementing this strategy? 07/14/1990

b. Describe your targeting/ marketing strategy.

Devices are distributed through residential audits, workshops, tours, community events and on demand.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	106	66
3. Number of toilet-displacement devices distributed:	0	0
4. Number of toilet flappers distributed:	0	0
5. Number of faucet aerators distributed:	201	125

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? Database

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

Devices are tracked in the customer database and the costs are tracked in the accounts payable database.

C. Low-Flow Device Distribution Expenditures

	This Year	Next Year
1. Budgeted Expenditures	6000	5000
2. Actual Expenditures	3566	

D. "At Least As Effective As"

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

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

E. Comments

Reported as of 6/27/05

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit: **Irvine Ranch 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) 80141.3
 - b. Determine other system verifiable uses (AF) 8406.2
 - c. Determine total supply into the system (AF) 92316.9
 - 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:

On file in 1997-98 BMP report

B. Survey Data

1. Total number of miles of distribution system line. 1330
2. Number of miles of distribution system line surveyed. 1200

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	148000	148997
2. Actual Expenditures	188320	

D. "At Least As Effective As"

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

E. Comments

Reported as of 6/27/05

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

Reporting Unit: **Irvine Ranch 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:

There are no unmetered accounts

3. Number of previously unmetered accounts fitted with meters during report year. 0

B. Feasibility Study

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no

a. If YES, when was the feasibility study conducted?
(mm/dd/yy)

b. Describe the feasibility study:

2. Number of CII accounts with mixed-use meters. 992

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

Meter retrofit result of conversion to reclaimed, and not part of conservation budget.

Reported as of 6/27/05

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:
Irvine Ranch Water District

BMP Form Status:
100% Complete

Year:
2003

A. Water Use Budgets

- | | |
|--|-------|
| 1. Number of Dedicated Irrigation Meter Accounts: | 5138 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: | 4283 |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF): | 26983 |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF): | 14769 |
| 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? | no |
| a. If YES, when did your agency begin implementing this strategy? | |
| b. Description of marketing / targeting strategy: | |
| 2. Number of Surveys Offered. | 0 |
| 3. Number of Surveys Completed. | 0 |
| 4. Indicate which of the following Landscape Elements are part of your survey: | |
| a. Irrigation System Check | no |
| b. Distribution Uniformity Analysis | no |
| c. Review / Develop Irrigation Schedules | no |
| d. Measure Landscape Area | no |
| e. Measure Total Irrigable Area | no |
| f. Provide Customer Report / Information | no |
| 5. Do you track survey offers and results? | no |
| 6. Does your agency provide follow-up surveys for previously completed surveys? | no |
| a. If YES, describe below: | |

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. | 226 |
| 3. Do you offer landscape irrigation training? | yes |
| 4. Does your agency offer financial incentives to improve | no |

landscape water use efficiency?

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:

They become part of the monthly mailing to all landscape accounts which includes information on efficient watering.

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	32500	110000
2. Actual Expenditures	38146	

E. "At Least As Effective As"

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

No

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

F. Comments

Reported as of 6/27/05

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit: **Irvine Ranch 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? yes

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

SCE rebate and So.Cal Gas Company had rebates at various times. Rebate amounts varied.

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. 619

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

IRWD participates in regional rebate program offered by wholesaler, and funded by other agencies. IRWD supplements regional program with targeted marketing, Point of Purchase displays, special events and notices in bill insert newsletters.

Reported as of 6/27/05

BMP 07: Public Information Programs

Reporting Unit: **Irvine Ranch 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.

IRWD communicates water conservation regularly through use of its monthly newsletter, resident tour program, web site, brochure distribution and landscape workshops. The Conservation Department has the main responsibility for program content, with assistance from the Public Affairs Dept.

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

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	no	0
b. Public Service Announcement	yes	4
c. Bill Inserts / Newsletters / Brochures	yes	12
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	9
g. Speaker's Bureau	yes	1
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	63800	45020
2. Actual Expenditures	22354	

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

Budget = conservation + public affairs

Reported as of 6/27/05

BMP 08: School Education Programs

Reporting Unit: **Irvine Ranch 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	52	4609	2
Grades 4th-6th	yes	22	2763	1
Grades 7th-8th	yes	8	1376	1
High School	yes	0	0	2

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

4. When did your Agency begin implementing this program? 1/1/1975

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	29800	25800
2. Actual Expenditures	21357	

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

MWDOC conducted 34 presentations - 7022 students. Balance conducted by IRWD. Expenditures only cover IRWD's portion. See MWDOC report for their expenditures. Also held total of 6 teacher workshops for all grades- (5 MWDOC, 1 IRWD)

Reported as of 6/27/05

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:
Irvine Ranch 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	no	no	no
Agency CII Customer Incentives	Budget (\$/Year)	No. Awarded to Customers	Total \$ Amount Awarded
h. Rebates	0	1043	241190
i. Loans	0	0	0
j. Grants	0	0	0
k. Others	0	0	0

Option B: CII Conservation Program Targets

- 5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this option? yes
- 6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? yes
- 7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991. 16.02
- 8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991. 144.14

B. Conservation Program Expenditures for CII Accounts

	This Year	Next Year
1. Budgeted Expenditures	75000	30000
2. Actual Expenditures	276982	

C. "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 addition to participating in regional incentive programs, IRWD also establishes water budgets with a penalty rate structure for CII accounts. The water budgets incorporate financial disincentives for leaks, over-watering and equipment malfunctions.

D. Comments

IRWD is not following options A or B in favor of applying water budgets. IRWD's water budgets incorporate financial disincentives for leaks, over-watering and equipment malfunctions. However, IRWD does participate in MWDSC's regional program, and has reported number of rebates awarded. Budgeted expenditures = IRWD only. Actual expenditures = IRWD (\$6186) + MWDSC (\$270,856).

Reported as of 6/27/05

BMP 09a: CII ULFT Water Savings

Reporting Unit: **Irvine Ranch 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? Consumption ranking
CII Sector or subsector
Check all that apply. 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.

IRWD efforts, exclusive of regional program vendor, were limited to personal contact during on-site water surveys. See MWDSC program for regional program details.

2. How does your agency advertise this program? Check all that apply. Direct letter
Trade shows and events

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

MWDSC's vendor is tracking program marketing and effectiveness. See MWDSC

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 ? 2

4. CII Subsector	Number of Toilets Replaced			
	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount
a. Offices	8	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	8	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.

No follow-up

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

a. Disruption to business	3
b. Inadequate payback	5
c. Inadequate ULFT performance	2
d. Lack of funding	5
e. American's with Disabilities Act	1
f. Permitting	2
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.

Customers need budget approval and time consuming assistance to "sell" the idea to upper management. Customers who were most interested were those with high water bill penalties.

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?

See information provided by MWDSC.

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	960
----------------------------------	-----

b. State agency contribution	0
c. Federal agency contribution	0
d. Other contribution	0
e. Total	960

D. Comments

MWDSC is providing reporting for this program unless other data is indicated. MWDSC providing participation numbers, expenditures etc.

Reported as of 6/27/05

BMP 11: Conservation Pricing

Reporting Unit:
Irvine Ranch 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	\$10758284
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$10858464

2. Commercial

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$4031282
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$1817237

3. Industrial

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$2926063
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$838780

4. Institutional / Government

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$1172463
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$182360

5. Irrigation

a. Water Rate Structure	Budget-Based Rate
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$6957345
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$1500176

6. Other

a. Water Rate Structure	Uniform
-------------------------	---------

b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$3122777
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$4946

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? 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."

Non-irrigation accounts are billed on a budget-based rate structure. Costs are considered part of ordinary billing procedures and are not specially tracked.

D. Comments

Reported as of 6/27/05

BMP 12: Conservation Coordinator

Reporting Unit: **Irvine Ranch 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? yes
- 3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? no
- 4. Partner agency's name:
- 5. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? 100%
 - b. Coordinator's Name Fiona Sanchez
 - c. Coordinator's Title Conservation Analyst
 - d. Coordinator's Experience and Number of Years 12 years in water conservation
 - e. Date Coordinator's position was created (mm/dd/yyyy) 5/1/2001
- 6. Number of conservation staff, including Conservation Coordinator. 4

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	255460	355602
2. Actual Expenditures	258596	

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

- c. Allow local agencies, including municipalities and special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply. yes
- 4. Does your agency include water softener checks in home water audit programs? yes
- 5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement 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

Reported as of 6/27/05

BMP 14: Residential ULFT Replacement Programs

Reporting Unit: **Irvine Ranch 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	686	164
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	1145	247
Total	1831	411

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

IRWD participates in regional rebate program operated by wholesaler (MWDOC). MWDOC contracts with vendor to administer the program. IRWD also participates in regional distribution program operated by MWDOC, administered by vendor.

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

See response to #6. The rebate and distribution programs are offered to both single and multi-family customers

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

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

B. Residential ULFT Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	0	20000
2. Actual Expenditures	0	

C. "At Least As Effective As"

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

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

D. Comments

Reported as of 6/27/05

Water Supply & Reuse

Reporting Unit:

Irvine Ranch Water District

Year:

2004

Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
MWDSC-Treated	25448.6	Imported
MWDSC-Untreated	8826.4	Imported
MWDSC-Reclaimed	289.1	Recycled
OCWD	34377.4	Groundwater
Los Alisos Plant	2996.5	Recycled
Well 78 & ET 1	1937.6	Groundwater
MWRP	14461.6	Recycled

Total AF: 88337.2

Reported as of 6/27/05

Accounts & Water Use

Reporting Unit Name:
Irvine Ranch Water District

Submitted to
CUWCC
01/25/2005

Year:
2004

A. Service Area Population Information:

1. Total service area population 308400

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	46110	21152.2	0	0
2. Multi-Family	29312	9979.4	0	0
3. Commercial	3728	7548.8	0	0
4. Industrial	891	6685.1	0	0
5. Institutional	216	2601.2	0	0
6. Dedicated Irrigation	1827	5669.7	0	0
7. Recycled Water	3547	19568.2	0	0
8. Other	97	11085.5	0	0
9. Unaccounted	NA	5626.3	NA	0
Total	85728	89916.4	0	0
		Metered		Unmetered

Reported as of 6/27/05

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

Reporting Unit: **Irvine Ranch Water District** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

- | | |
|--|------------|
| 1. Based on your signed MOU date, 08/26/1991, your Agency STRATEGY DUE DATE is: | 08/25/1993 |
| 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? | 7/14/1990 |
| 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? | 7/14/1990 |

B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	21	0
2. Number of surveys completed:	21	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 | no | no |

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.

Surveys are tracked in utility billing database. Costs calculated as needed.

C. Water Survey Program Expenditures

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

D. "At Least As Effective As"

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

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

IRWD's billing system incorporates individualized water budgets, sending a price signal when the customer has a leak or is over-watering. IRWD responds with on-site surveys for high bill customers as requested.

E. Comments

Reported as of 6/27/05

BMP 02: Residential Plumbing Retrofit

Reporting Unit: **Irvine Ranch 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:

- 2. Has your agency satisfied the 75% saturation requirement for single-family housing units? yes
- 3. Estimated percent of single-family households with low-flow showerheads: 100%
- 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: 86.6%
- 6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

In 2000, MWDOC and MWD conducted the OC Saturation Survey and found countywide saturation rates of 66.9% in SF and 59.8% in mf dwelling units. Saturation rates reported above represent linear extrapolations of saturation results for 02-03. B. Low-Flow Device Distribution Information

B. Low-Flow Device Distribution Information

- 1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? yes
 - a. If YES, when did your agency begin implementing this strategy? 07/14/1990
 - b. Describe your targeting/ marketing strategy.

Devices are distributed through residential audits, workshops, tours, community events and on demand.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	388	360
3. Number of toilet-displacement devices distributed:	0	0
4. Number of toilet flappers distributed:	0	0
5. Number of faucet aerators distributed:	675	227
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?		Database
b. If yes, describe your tracking and distribution system :		

Devices are tracked in the customer database and the costs are tracked

in the accounts payable database.

C. Low-Flow Device Distribution Expenditures

	This Year	Next Year
1. Budgeted Expenditures	5000	5000
2. Actual Expenditures	3953	

D. "At Least As Effective As"

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

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

E. Comments

Reported as of 6/27/05

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit: **Irvine Ranch Water District** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

1. Has your agency completed a pre-screening system audit for this reporting year? yes
2. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
 - a. Determine metered sales (AF) 84291.6
 - b. Determine other system verifiable uses (AF) 3905.4
 - c. Determine total supply into the system (AF) 93823.3
 - 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? yes
6. Does your agency operate a system leak detection program? yes
 - a. If yes, describe the leak detection program:

On file in 1997-98 BMP report

B. Survey Data

1. Total number of miles of distribution system line. 1330
2. Number of miles of distribution system line surveyed. 1230

C. System Audit / Leak Detection Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	148997	149000
2. Actual Expenditures	228595	

D. "At Least As Effective As"

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

E. Comments

Reported as of 6/27/05

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

Reporting Unit: **Irvine Ranch 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:

There are no unmetered accounts

3. Number of previously unmetered accounts fitted with meters during report year. 0

B. Feasibility Study

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no
- a. If YES, when was the feasibility study conducted? (mm/dd/yy)
- b. Describe the feasibility study:

2. Number of CII accounts with mixed-use meters. 992

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

C. Meter Retrofit Program Expenditures

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

D. "At Least As Effective As"

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

E. Comments

Reported as of 6/27/05

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:
Irvine Ranch Water District

BMP Form Status:
100% Complete

Year:
2004

A. Water Use Budgets

- | | |
|--|-------|
| 1. Number of Dedicated Irrigation Meter Accounts: | 5355 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: | 4498 |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF): | 30671 |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF): | 17102 |
| 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? | no |
| a. If YES, when did your agency begin implementing this strategy? | |
| b. Description of marketing / targeting strategy: | |
| 2. Number of Surveys Offered. | 0 |
| 3. Number of Surveys Completed. | 0 |
| 4. Indicate which of the following Landscape Elements are part of your survey: | |
| a. Irrigation System Check | no |
| b. Distribution Uniformity Analysis | no |
| c. Review / Develop Irrigation Schedules | no |
| d. Measure Landscape Area | no |
| e. Measure Total Irrigable Area | no |
| f. Provide Customer Report / Information | no |
| 5. Do you track survey offers and results? | no |
| 6. Does your agency provide follow-up surveys for previously completed surveys? | no |
| a. If YES, describe below: | |

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. | 266 |
| 3. Do you offer landscape irrigation training? | yes |
| 4. Does your agency offer financial incentives to improve | no |

landscape water use efficiency?

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:

They become part of the monthly mailing to all landscape accounts which includes information on efficient watering and usage versus allocation.

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	110000	142197
2. Actual Expenditures	68867	

E. "At Least As Effective As"

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

No

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

F. Comments

Reported as of 6/27/05

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit: **Irvine Ranch 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? yes

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

SCE rebate and So.Cal Gas Company had rebates at various times. Rebate amounts varied.

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. 1084

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

IRWD participates in regional rebate program offered by wholesaler, and funded by other agencies. IRWD supplements regional program with targeted marketing, Point of Purchase displays, special events and notices in bill insert newsletters.

Reported as of 6/27/05

BMP 07: Public Information Programs

Reporting Unit: **Irvine Ranch 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.

IRWD communicates water conservation regularly through use of its monthly newsletter, resident tour program, web site, brochure distribution and landscape workshops. The Conservation Department has the main responsibility for program content, with assistance from the Public Affairs Dept.

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

Public Information Program Activity	Yes/No	Number of Events
a. Paid Advertising	no	
b. Public Service Announcement	yes	5
c. Bill Inserts / Newsletters / Brochures	yes	12
d. Bill showing water usage in comparison to previous year's usage	yes	
e. Demonstration Gardens	yes	1
f. Special Events, Media Events	yes	8
g. Speaker's Bureau	yes	1
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	45020	33020
2. Actual Expenditures	39629	

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

Web site also contains extensive conservation information.

Reported as of 6/27/05

BMP 08: School Education Programs

Reporting Unit: **Irvine Ranch 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	51	2352	1
Grades 4th-6th	yes	23	1511	1
Grades 7th-8th	yes	2	70	1
High School	yes	12	428	1

3. Did your Agency's materials meet state education framework requirements? yes
4. When did your Agency begin implementing this program? 1/1/1975

B. School Education Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	25800	25800
2. Actual Expenditures	23270	

C. "At Least As Effective As"

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

D. Comments

Reported as of 6/27/05

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:
**Irvine Ranch 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	1	0
b. Number of New Surveys Completed	0	1	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	122	17110
i. Loans	0	0	0
j. Grants	0	0	0
k. Others	0	0	0

Option B: CII Conservation Program Targets

- | | |
|---|------|
| 5. Does your agency track CII program interventions and water savings for the purpose of complying with BMP 9 under this option? | yes |
| 6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? | yes |
| 7. Estimated annual savings (AF/yr) from site-verified actions taken by agency since 1991. | 2.61 |
| 8. Estimated annual savings (AF/yr) from non-site-verified actions taken by agency since 1991. | 23.5 |

B. Conservation Program Expenditures for CII Accounts

	This Year	Next Year
1. Budgeted Expenditures	30000	30000
2. Actual Expenditures	20542	

C. "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 addition to participating in regional programs, IRWD also establishes water budgets with a penalty rate structure for CII accounts. The water budgets incorporate financial disincentives for leaks, over-watering and equipment malfunctions. Budgeted expenditures = IRWD only. Actual = IRWD (\$3,432) + MWD rebates (\$17,110)

D. Comments

IRWD is not following options A or B in favor of applying water budgets. IRWD's water budgets incorporate financial disincentives for leaks, over-watering and equipment malfunctions. However, IRWD does participate in MWDSC's regional program, and has reported number of rebates awarded. MWDSC is reporting the associated savings and expenditures. Budgeted expenditures = IRWD only. Actual = MWDSC

Reported as of 6/27/05

BMP 09a: CII ULFT Water Savings

Reporting Unit: **Irvine Ranch 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? Consumption ranking
CII Sector or subsector
 Check all that apply. 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.

IRWD efforts, exclusive of regional program vendor, were limited to personal contact during on-site water surveys. See MWDC program for regional program details.

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

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

MWDC's vendor is tracking program marketing and effectiveness. See MWDC IRWD supplements with personal visits with customers during CII site surveys to high use customers. Customers are provided with copies of rebate program literature, and program/benefits are explained.

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? 1

4. CII Subsector	Number of Toilets Replaced			
	Standard Gravity Tank	Air Assisted	Valve Floor Mount	Valve Wall Mount
a. Offices	0	0	0	0
b. Retail / Wholesale	0	0	0	0
c. Hotels	0	0	0	0
d. Health	0	0	0	0
e. Industrial	0	0	0	0
f. Schools: K to 12	0	0	0	0
g. Eating	0	0	0	0

h. Govern- ment	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.

No follow-up

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

- a. Disruption to business 1
- b. Inadequate payback 1
- c. Inadequate ULFT performance 1
- d. Lack of funding 1
- e. American's with Disabilities Act 1
- f. Permitting 1
- 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.

Customers need budget approval and time consuming assistance to "sell" the idea to upper management. Customers who were most interested were those with high water bill penalties. For other information, see MWDC program details.

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?

See information provided by MWDC

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

D. Comments

MWDSC is providing reporting for this program unless other data is indicated. MWDSC providing participation numbers, expenditures, program design etc.

Reported as of 6/27/05

BMP 11: Conservation Pricing

Reporting Unit:
Irvine Ranch 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	\$11977872
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$12937249

2. Commercial

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$5586777
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$2263122

3. Industrial

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$4128178
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$1041875

4. Institutional / Government

a. Water Rate Structure	Increasing Block
b. Sewer Rate Structure	Uniform
c. Total Revenue from Volumetric Rates	\$1624457
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$226722

5. Irrigation

a. Water Rate Structure	Budget-Based Rate
b. Sewer Rate Structure	Service Not Provided
c. Total Revenue from Volumetric Rates	\$8382461
d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources	\$1893903

6. Other

a. Water Rate Structure	Uniform
-------------------------	---------

- b. Sewer Rate Structure Uniform
- c. Total Revenue from Volumetric Rates \$3090342
- d. Total Revenue from Non-Volumetric Charges, Fees and other Revenue Sources \$5308

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? 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."

Non-irrigation accounts are billed on budget-based rate structure. Costs are considered part of ordinary billing procedures and are not specially tracked.

D. Comments

Other = ag use.

Reported as of 6/27/05

BMP 12: Conservation Coordinator

Reporting Unit: **Irvine Ranch 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? yes
- 3. If no, is the coordinator supplied by another agency with which you cooperate in a regional conservation program ? no
- 4. Partner agency's name:
- 5. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? 100%
 - b. Coordinator's Name Fiona Sanchez
 - c. Coordinator's Title Conservation Analyst
 - d. Coordinator's Experience and Number of Years 13 years in water conservation
 - e. Date Coordinator's position was created (mm/dd/yyyy) 5/1/2001
- 6. Number of conservation staff, including Conservation Coordinator. 4

B. Conservation Staff Program Expenditures

	This Year	Next Year
1. Budgeted Expenditures	355602	272681
2. Actual Expenditures	248896	

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

Budget and actual expenditures estimated. Conservation combined with other dept.

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

4. Does your agency include water softener checks in home water audit programs? yes

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

Reported as of 6/27/05

BMP 14: Residential ULFT Replacement Programs

Reporting Unit: **Irvine Ranch Water District** BMP Form Status: **100% Complete** Year: **2004**

A. Implementation

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	yes	yes
Number of Toilets Replaced by Agency Program During Report Year		
Replacement Method	SF Accounts	MF Units
2. Rebate	347	173
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	1649	8916
Total	1996	9089

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

IRWD participates in regional rebate program operated by wholesaler (MWDOC). MWDOC contracts with vendor to administer the program. IRWD also participates in regional distribution program operated by MWDOC, administered by vendor.

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

See response to #6. The rebate and distribution programs are offered to both single and multi-family customers

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	20000	20000
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

APPENDIX E

**IRVINE RANCH WATER DISTRICT
BEST MANAGEMENT PRACTICES ANNUAL REPORT
COVERAGE REPORTS 2003-04**

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

Reporting Unit:
Irvine Ranch 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

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

Irvine Ranch Water District to Implement Targeting/Marketing Program by:	1999		
		Single-Family	Multi-Family
Year Irvine Ranch Water District Reported Implementing Targeting/Marketing Program:	1990	1990	1990
Irvine Ranch Water District Met Targeting/Marketing Coverage Requirement:	YES	YES	YES

Test for Condition 2

			Single-Family	Multi-Family
Survey Program to Start by:	1998	Residential Survey Offers (%)	0.22%	
Reporting Period:	03-04	Survey Offers > 20%	NO	NO

Test for Condition 3

	Completed Residential Surveys	
	Single Family	Multi-Family
Total Completed Surveys 1999 - 2004:	868	120
Past Credit for Surveys Completed Prior to 1999 (Implementation of Reporting Database):	1,723	341
Total + Credit	2,591	461
Residential Accounts in Base Year	25,607	21,658
Irvine Ranch Water District Survey Coverage as % of Base Year Residential Accounts	10.12%	2.13%

Coverage Requirement by Year 7 of Implementation per Exhibit 1	7.90%	7.90%
Irvine Ranch Water District on Schedule to Meet 10-Year Coverage Requirement	YES	NO

BMP 1 COVERAGE STATUS SUMMARY:

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

BMP 02 Coverage: Residential Plumbing Retrofit

Reporting Unit:

Irvine Ranch 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 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	60.00%	NO	65.00%	NO
2000	99-00	60.00%	NO	65.00%	NO
2001	01-02	68.00%	NO	60.00%	NO
2002	01-02	68.00%	NO	60.00%	NO
2003	03-04	91.70%	YES	79.90%	YES
2004	03-04	100.00%	YES	86.60%	YES

Test for Condition 2

Report Year	Report Period	Irvine Ranch 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>
22,131	494	2.2%	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>
31,217	426	1.4%	NO

BMP 2 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

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

Reporting Unit:
Irvine Ranch 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

Report Year	Report Period	Pre-Screen Completed	Pre-Screen Result	Full Audit Indicated	Full Audit Completed
1999	99-00	YES	94.1%	No	NO
2000	99-00	YES	94.9%	No	NO
2001	01-02	YES	97.7%	No	NO
2002	01-02	YES	92.0%	No	NO
2003	03-04	YES	95.9%	No	NO
2004	03-04	YES	94.0%	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:
Irvine Ranch 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:
Irvine Ranch 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 5.

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

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

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

Test for Condition 1

Year	Report Period	BMP 5 Implementation Year	No. of Irrigation Meter Accounts	No. of Irrigation Accounts with Budgets	Budget Coverage Ratio	90% Coverage Met by Year 4
1999	99-00	1	3,425	3,303	96.4%	NA
2000	99-00	2	3,691	3,561	96.5%	NA
2001	01-02	3	4,752	3,903	82.1%	NA
2002	01-02	4	5,001	4,148	82.9%	No
2003	03-04	5	5,138	4,283	83.4%	No
2004	03-04	6	5,355	4,498	84.0%	No

Test for Condition 2a (survey offers)

Select Reporting Period: 03-04

Large Landscape Survey Offers as % of Mixed Use Meter CII Accounts

Survey Offers Equal or Exceed 20% Coverage Requirement NO

Test for Condition 2a (surveys completed)

Total Completed Landscape Surveys Reported through Credit for Surveys Completed Prior to Implementation of Reporting Database

Total + Credit

CII Accounts in Base Year 3,077

RU Survey Coverage as a % of Base Year CII Accounts

Coverage Requirement by Year of Implementation per Exhibit 1 6.3%

RU on Schedule to Meet 10 Year Coverage Requirement NO

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

Report Year	Report Period	BMP 5 Implementation Year	Agency has mix-use budget program	No. of mixed-use budgets
1999	99-00	1	YES	99
2000	99-00	2	YES	99
2001	01-02	3	YES	133
2002	01-02	4	YES	223
2003	03-04	5	YES	226
2004	03-04	6	YES	266

Report Year	Report Period	BMP 4 Implementation Year	No. of mixed use CII accounts	No. of mixed use CII accounts fitted with irrig. meters
1999	99-00	1	1,194	
2000	99-00	2	1,194	
2001	01-02	3	992	
2002	01-02	4	992	
2003	03-04	5	992	1
2004	03-04	6	992	

Test for Condition 3

Report Year	Report Period	BMP 5 Implementation Year	RU offers financial incentives?	No. of Loans	Total Amt. Loans
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		

Report Year	Report Period	No. of Grants	Total Amt. Grants	No. of rebates	Total Amt. Rebates
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:
Irvine Ranch 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

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

Year	Report Period	BMP 6 Implementation Year	No. Rebates Awarded	Coverage Met?
1999	99-00	1		NO
2000	99-00	2		NO
2001	01-02	3		NO
2002	01-02	4	158	YES
2003	03-04	5	619	YES
2004	03-04	6	1,084	YES

BMP 6 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

BMP 07 Coverage: Public Information Programs

Reporting Unit:

Irvine Ranch 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

Year	Report Period	BMP 7 Implementation Year	RU Has Public Information Program?
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:
Irvine Ranch 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

Year	Report Period	BMP 8 Implementation Year	RU Has School Education Program?
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:
Irvine Ranch 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 9.

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

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

OR

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

OR

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

Test for Condition 1

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

Test for Condition 2a

	Commercial	Industrial	Institutional
Total Completed Surveys Reported through 2004			
Credit for Surveys Completed Prior to Implementation of Reporting Databases	40	6	3
Total + Credit	40	7	3
CII Accounts in Base Year	1,475	1,460	142
RU Survey Coverage as % of Base Year CII Accounts	2.7%	0.5%	2.1%
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	NO	NO	NO

Test for Condition 2a

Year	Report Period	BMP 9 Implementation Year	Performance Target Savings (AF/yr)	Performance Target Savings Coverage	Performance Target Savings Coverage Requirement	Coverage Requirement Met
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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	52	0.3%	3.3%	NO
2004 03-04	6	8	0.0%	4.2%	NO

Test for Condition 2c

Total BMP 9 Surveys + Credit	50
BMP 9 Survey Coverage	1.6%
BMP 9 Performance Target Coverage	0.3%
BMP 9 Survey + Performance Target Coverage	1.9%
Combined Coverage Equals or Exceeds Coverage Requirement?	NO

BMP 9 COVERAGE STATUS SUMMARY:

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

BMP 11 Coverage: Conservation Pricing

Reporting Unit:

Irvine Ranch 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 one condition to comply with BMP 11.

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

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

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

Test for Condition 1

Year	Report Period	RU Employed Non Conserving Rate Structure	RU Meets BMP 11 Coverage Requirement
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:
Irvine Ranch 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

Report Year	Report Period	Conservation Coordinator Position Staffed?	Total Staff on Team (incl. CC)
1999	99-00	YES	2
2000	99-00	YES	3
2001	01-02	YES	2
2002	01-02	YES	4
2003	03-04	YES	4
2004	03-04	YES	4

BMP 12 COVERAGE STATUS SUMMARY:

Water supplier is meeting coverage requirements for this BMP.

BMP 13 Coverage: Water Waste Prohibition

Reporting Unit:

Reporting Period:

Irvine Ranch Water District**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:**

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

BMP 13 COVERAGE STATUS SUMMARY:**Water supplier is meeting coverage requirements for this BMP.**

BMP 14 Coverage: Residential ULFT Replacement Programs

Reporting Unit: Irvine Ranch 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

Coverage Year	BMP 14 Data Submitted to CUWCC	Exemption Filed with CUWCC	ROR Ordinance In Effect	Exhibit 6 Coverage Req'mt (AF)	Toilet Replacement Program Water Savings* (AF)
1998	Yes			73.49	606.07
1999	Yes	No	No	212.34	791.85
2000	Yes	No	No	409.11	1054.01
2001	Yes	No	No	656.99	1350.93
2002	Yes	No	No	949.77	1692.35
2003	Yes	No	No	1281.79	2088.34
2004	Yes	No	No	1647.89	2959.99
2005	No	No	No	2043.34	
2006	No	No	No	2463.88	
2007	No	No	No	2905.62	

*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: Irvine Ranch 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	18063.82	25480.01
Average resale rate	.0362	.03
Average persons per unit		
Average toilets per unit		
Average savings per home (gpd; from Exhibit 6)	43.1	53

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	16720.26	650.64	17322.86	650.64		692.91	261.18	231.03	30.15
1999	15476.64	647.39	17236.24	602.25	45.14	641.38	321.21	264.35	56.86
2000	14325.51	644.15	17150.06	557.45	86.70	593.67	376.78	296.35	80.43
2001	13260.01	640.93	17064.31	515.99	124.94	549.52	428.21	327.07	101.14
2002	12273.75	637.73	16978.99	477.61	160.11	508.64	475.82	356.57	119.25
2003	11360.85	634.54	16894.10	442.09	192.45	470.81	519.89	384.90	134.99
2004	10515.85	631.36	16809.63	409.21	222.16	435.79	560.67	412.10	148.58
2005	9733.70	628.21	16725.58	378.77	249.44	403.38	598.43	438.21	160.22
2006	9009.73	625.07	16641.95	350.60	274.47	373.38	633.38	463.29	170.09
2007	8339.60	621.94	16558.74	324.52	297.42	345.61	665.72	487.37	178.35

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	23735.75	760.58	24592.04	760.58		983.68	444.08	400.74	43.34
1999	22110.90	756.78	24469.08	708.51	48.26	916.34	540.53	458.54	81.99
2000	20597.28	752.99	24346.73	660.01	92.98	853.61	630.37	514.04	116.34
2001	19187.27	749.23	24225.00	614.83	134.40	795.18	714.07	567.33	146.74
2002	17873.79	745.48	24103.87	572.74	172.74	740.74	792.04	618.50	173.54
2003	16650.22	741.75	23983.35	533.53	208.22	690.04	864.67	667.63	197.04
2004	15510.41	738.04	23863.44	497.01	241.04	642.80	932.32	714.81	217.52
2005	14448.63	734.35	23744.12	462.99	271.37	598.79	995.35	760.11	235.24
2006	13459.53	730.68	23625.40	431.29	299.39	557.80	1054.06	803.60	250.46

2007	12538.15	727.03	23507.27	401.77	325.26	519.62	1108.75	845.37	263.38
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