



TWENTY FIRST  
ANNUAL REPORT  
OF THE  
CHINO BASIN WATERMASTER  
FISCAL YEAR 1997-1998

Case No. RCV 51010

CHINO BASIN MUNICIPAL WATER DISTRICT  
V.  
CITY OF CHINO, ET. AL.

March 1999

To: ALL ACTIVE AND CONCERNED PARTIES IN CHINO BASIN CASE NO. RCV 51010  
(Formerly CASE NO. SCV 164327)

Subject: Twenty-first Annual Report of Chino Basin Watermaster

The Chino Basin Watermaster is pleased to present this Twenty-first Annual Report covering the fiscal year 1997-98. The Honorable Judge J. Michael Gunn of the Superior Court in the County of San Bernardino West District received and filed this report on March 2, 1999.

A brief summary of activities during this reporting period (July 1, 1997 through June 30, 1998) is as follows:

Total production from the Basin during 1997-98 was 145,735 acre-feet, with production by Pool as follows:

| <u>Pool</u>                       | <u>Production (AF)</u> | <u>Initial Operating<br/>Safe Yield (AF)</u> |
|-----------------------------------|------------------------|--|
| Appropriative                     | 97,435                 | 54,834                                       |
| Overlying (Agricultural) Pool     | 43,345                 | *82,800                                      |
| Overlying (Non-Agricultural) Pool | <u>4,955</u>           | <u>7,366</u>                                 |
| Totals                            | 145,735                | 145,000                                      |

\* The Allocated safe yield for the Overlying (Agricultural) Pool is 414,000 acre feet during any consecutive five year period. The amount shown above (82,800 acre-feet) is the annual average.

A total of 30,299.269 acre-feet of water was leased among the members of the Appropriative Pool and the Watermaster to be used to offset current or potential overproduction.

As of June 30, 1998 there was 38,257.500 acre-feet of water in the Metropolitan Water District Cyclic Storage Account and 1,697.300 acre-feet of water remained in a Cooperative Storage Account for Monte Vista Water District.

Fiscal year 1997-98 marks the fifteenth year that the Overlying (Agricultural) Pool has not produced its total five year allocation of safe yield which allows such water to be available for reallocation to members of the Appropriative Pool (Exhibit "H", Paragraph 10, Page 73 of the Watermaster Judgment).

There was 221,597.253 acre-feet of water in local storage accounts at the close of fiscal year 1997-98.

Assessments billed by Pool during 1997-98 for 1996-97 production are as follows:

|                                   |                  |
|-----------------------------------|------------------|
| Appropriative Pool                | \$5,690,628.56   |
| Overlying (Agricultural) Pool     | .00              |
| Overlying (Non-Agricultural) Pool | <u>61,063.72</u> |
|                                   | \$5,751,692.28   |

Your continued cooperation and input has been greatly appreciated.

Sincerely,

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Traci Stewart  
Chief of Watermaster Services

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## **TWENTY-FIRST ANNUAL REPORT OF THE CHINO BASIN WATERMASTER**

The Chino Basin Watermaster was established under a Judgment entered in the Superior Court of the State of California for the County of San Bernardino, entitled "Chino Basin Municipal Water District v. City of Chino, et al.,"(originally Case No. SCV 164327, the file was transferred in August 1989, by order of the Court and assigned new Case No. RCV 51010). The Honorable Judge Howard B. Wiener signed the Judgment on January 27, 1978. The effective date of this Judgment for accounting and operations was July 1, 1977.

The Twenty-First Annual Report presents an overview of the Watermaster process including the Pool Committees, Advisory Committee and Watermaster activities, and an accounting of production for fiscal year 1997-98.

### **I. INTRODUCTION**

Beginning in the early 1970's and continuing for several years, studies and discussions among concerned water producers resulted in the passage in 1974 of a "Memorandum of Agreement on the Chino Basin Plan". In January 1975, Senator Ruben S. Ayala introduced SB 222 (Senate Bill 222) in the California Legislature. This bill authorized a production assessment levy in the amount of \$2.00 per acre-foot per year, for a period of three years. The funds were utilized to finance the final effort to draw up a management plan. This effort included conducting essential studies and negotiations to implement a water management program for the Chino Groundwater Basin.

SB 222 was renumbered as a part of the Municipal Water District Law at Section 74120 of the Water Code. It was approved by Governor Ronald Reagan and filed with the Secretary of State on June 28, 1975. Engineering, legal and other working sub-committees were formed for the purpose of analyzing and defining specific problem areas. Socio-economic, safe yield and other studies were held to provide the information necessary to reach an agreement regarding the allocation of producer water rights. Cost savings were achieved by terminating many of the studies as soon as the necessary information was compiled in draft form.

Three groups represented the majority of producer interests. These groups became active early in the negotiations under SB 222. Eventually, the groups formalized into pool committees and became known as the following:

- Overlying (Agricultural) Pool representing dairymen and farmers (including minimal producers) and the State of California.
- Overlying (Non-Agricultural) Pool representing industries.
- Appropriative Pool, representing cities, water districts and water companies.

Representatives of the three pools committees, acting together, became known as the Watermaster "Advisory Committee." The Advisory Committee was established as the policy setting body and charged with the oversight of Watermaster's discretionary activities. Members of each of the three pool committees met regularly to transact the business concerns of its respective producers. Decisions affecting more than one pool

were acted upon by each pool committee and recommendations were then forwarded to the Watermaster Advisory Committee.

The Judgment establishes a method to determine the voting power of each of the producers on the pool committees. The method was based on a formula of assessments paid by the producers in the prior year and their allocated safe yield.

Approximately 5 percent of the Chino Groundwater Basin is located in Los Angeles County, which is included in the Three Valleys Municipal Water District (TVMWD) service area. Approximately 15 percent of the basin is in Riverside County, which is included in the Western Municipal Water District (WMWD) service area. Approximately 80 percent of the basin is located in the west-end of San Bernardino County, which is included in the Chino Basin Municipal Water District (CBMWD) service area. Because of their overlying service areas, all three of the municipal water districts, who were also provided the opportunity to participate in the initial negotiations, and the Chino Basin Water Conservation District (CBWCD), became known as Non-Producer water districts.

Current and historical annual production information for each pool is provided in Appendix B.

## II. WATERMASTER

During the reporting period covered by this annual report, CBMWD was replaced as Watermaster by a new nine-member board. The events leading to appointment of the nine-member board began in fiscal year 1995-96, during which time it was determined that the reappointment of the CBMWD board as Watermaster had not been submitted to the court for approval in 1993. In January 1996, a motion was made and supported by a majority of the Advisory Committee to appoint themselves Watermaster. Initially, this motion was supported by a majority of the Advisory Committee. Watermaster Counsel was directed to file a motion with the Court. An Ad Hoc Transition Committee of pool members and interested parties was formed to work out the logistics involved with changing the Watermaster. Shortly after the motion was filed, the case was assigned to the Honorable Judge J. Michael Gunn. Fifteen committee members attended the first Ad Hoc Transition Committee meeting on January 31, 1996, and agreed unanimously to propose that an arbitrator or an arbitration process be put in place to address initial concerns raised by some parties to the Judgment regarding the Advisory Committee as Watermaster.

By early March, the Overlying (Agricultural) Pool and a few appropriators had reconsidered their positions and were opposed to the motion to appoint the Advisory Committee as Watermaster, even with an arbitration process. As a result, the motion was taken off calendar and additional Ad Hoc Transition Committee meetings were held. These meetings resulted in the development of a proposal for a nine-member board,

which was approved by the Advisory Committee in April 1996. Watermaster Counsel was directed to file a motion to appoint the nine-member board, which was set for hearing on June 18, 1996.

On June 3, 1996, CBMWD filed an ex-parte motion to shorten the time on a motion to appoint itself as Interim Watermaster, to appoint itself "nunc pro tunc" Watermaster and to disqualify Watermaster Counsel based on the allegation that Counsel had a conflict of interest in serving both Watermaster and the Advisory Committee. The motion to shorten time was granted and the hearing was set for June 18, 1996. At the June 18 hearing, the Honorable Judge J. Michael Gunn granted the motions to appoint CBMWD nunc pro tunc and Interim Watermaster, and denied the motion to disqualify Watermaster Counsel. The Judge also ordered the parties to meet and confer regarding the nine-member board proposal, which continued the matter to a meet and confer among all of the interested parties, held July 29, 1996.

July 29, 1996, was the first of two meet & confers, held at the City of Chino Council Chambers. Although there was much discussion on that date, the only substantive decision made was to hold an additional meet and confer on August 28, 1996.

As a result of the second meet and confer, a three-member Watermaster Board proposal was submitted to the Court for hearing on September 18, 1996. As of the Court hearing date, only two of the three municipal water districts invited to participate on the proposed three-member Watermaster Board had responded affirmatively. CBMWD was expected to agree to participate after consideration at their October board meeting and the Court continued the motion until November 20, 1996. CBMWD did not take action to participate on the three-member Watermaster Board as anticipated and the motion was taken off calendar in November of 1996. Four additional workshops were held during late 1996 and into the early months of 1997. As a result, the original nine-member Watermaster Board proposal was modified and approved by the Watermaster Advisory Committee on January 30, 1997, by a majority vote of 67.99%.

On March 11, 1997, a new motion to appoint a nine-member Watermaster Board was heard by the Honorable Judge J. Michael Gunn. On April 29, 1997, Judge Gunn issued a ruling which:

- Appointed Anne J. Schneider, Esq. as Special Referee to make a recommendation to the Court regarding the issues raised by the motions.
- Ordered CBMWD, the Advisory Committee, and the DWR (Department of Water Resources) to negotiate terms for the DWR to serve as Interim Watermaster.
- Granted a motion submitted on March 6, 1997, by the law firm of Cihigoyenette, Grossberg & Clouse, general counsel for CBMWD, to disqualify Watermaster Counsel.

Negotiations began regarding the DWR serving as interim Watermaster through Special Counsel to the Watermaster Advisory Committee, James L. Markman, CBMWD Counsel, Jean Cihigoyenette, and the attorneys for DWR.

Anne Schneider accepted the Court's appointment to become a Special Referee and began the process necessary to make a recommendation to the Court. No substantial decisions were reached by fiscal year end and the matter continued into fiscal year 1997-98.

The Special Referee held a special hearing on October 21, 1997, at the Watermaster offices. By mid December 1997, the Special Referee filed her written *Report and Recommendation* with the Court. Based on the Report and recommendation, the Honorable J. Michael Gunn entered a ruling on February 19, 1998 which:

- Appointed the Nine-Member Board as Interim Watermaster.
- Directed that an Optimum Basin Management Program be developed.
- Directed negotiation with DWR be resumed.
- Set a hearing date of October 28, 1999 regarding:
  - The Optimum Basin Management Program
  - Continuance of the Nine-Member Board.
  - Status of negotiations with DWR to serve as Watermaster and to carry out Watermaster operations.

Since the ruling, the Watermaster and producers and other interested parties have met twice a month and have held special workshops to develop a scope of work to prepare an OBMP and to cooperatively develop the OBMP.

From July 1, 1997 to March 5, 1998 the Chino Basin Watermaster Board members and elected officers were:

|                  |                     |
|------------------|---------------------|
| John L. Anderson | Chairman            |
| George Borba     | Vice-Chairman       |
| Terry Catlin     | Secretary/Treasurer |
| Anne W. Dunihue  | Member              |
| Wyatt L. Troxel  | Member              |

On February 19, 1998 the Honorable Judge J. Michael Gunn issued an order to appoint a new nine-member Watermaster Board. This ruling was the result of extensive discussions that began as a result of an action by the Advisory Committee in January 1996 to appoint itself as Watermaster.

Two quarterly meetings and two special meetings were held during this period. The final meeting of the Chino Basin Municipal Water District Board of Directors serving in the capacity as the Watermaster Board was held March 4, 1998.

On March 5, 1998, the new nine-member Watermaster Board ratified action they had taken at an inaugural meeting held February 26, 1998. These actions including seating the new board, selecting officers and other administrative matters. The new nine-member Board and officers are as follows:

**Appropriative Pool Representatives**

|            |  |                                 |
|------------|--|---------------------------------|
| Regular:   | Robert Neufeld, Chairman               | Cucamonga County Water District |
| Alternate: | Jerome Wilson                          |                                 |
| Regular:   | Mayor Gus Skropos                      | City of Ontario                 |
| Alternate: | Gerald Dubois                          |                                 |
| Regular:   | Josephine Johnson, Secretary/Treasurer | Monte Vista Water District      |
| Alternate: | William Walker                         |                                 |

**Overlying (Non-Agricultural) Pool Representative**

Regular: Steve Arbelbide California Steel Industries, Inc.

**Overlying (Agricultural) Pool Representatives**

Regular: Paul Hofer Agricultural, Vineyards  
Regular: Geoffrey Vanden Heuvel Dairy

**Municipal Water District Representatives**

Regular: Terry Catlin Chino Basin Municipal Water District  
Alternate: John L. Anderson

Regular: Andrew Krueger Three Valleys Municipal Water District  
District  
Alternate: Rick Hansen

Regular: Donald Schroeder Western Municipal Water District  
Alternate: Donald Harriger

From March 5 1998 to June 30, 1998 the new nine-member Watermaster Board held eight regular meetings, three meetings of an ad-hoc Personnel Committee and one meeting was held to review proposals and recommend a financial consultant for the Optimum Basin Management Program an ad-hoc Legal Committee.

For a summary of the OBMP development, refer to the OBMP section included in this document beginning on page 14.

**III. ADVISORY AND POOL COMMITTEES**

**A. Overlying (Agricultural) Pool**

Each year, an annual election is held to nominate members and officers to serve on the Overlying (Agricultural) Pool Committee and Advisory Committee for the next fiscal year. The Annual Meeting was held on July 30, 1997 and resulted in the following members being elected to serve as officers for fiscal year 1997-98:

|               |  |
|---------------|--|
| Chairman      | Robert DeBerard                              |
| Vice-Chairman | Gene Koopman                                 |
| Secretary     | Traci Stewart, Chief of Watermaster Services |
| Treasurer     | Alice W. Lichti, Watermaster Controller      |

The members designated to administer the pool committee's activities and serve as representatives on the Watermaster Advisory Committee during fiscal year 1997-98 are shown in Appendix A-1. It has become the practice of the pool committee to designate regular and alternate members as pool representatives in order to insure a quorum for the Overlying (Agricultural) Pool meetings and adequate participation at Advisory Committee meetings.

During fiscal year 1997-98, three regular meeting, two special meetings and seven Joint Pools and Advisory Committee meetings were held, to act on matters affecting the members of this pool and to discuss actions to be forwarded by the Advisory Committee to the Watermaster Board. Regular meetings were scheduled to allow the Overlying (Agricultural) and Appropriative Pool to meet on the same day when joint meetings were not held. By action taken in June of 1988, any Overlying (Agricultural) Pool Committee member attending an Appropriative Pool meeting is compensated for attendance.

**B. Overlying (Non-Agricultural) Pool**

Each year, an annual election is held to nominate officers to serve on the Overlying (Non-Agricultural) Pool Committee and Advisory Committee for the next fiscal year. The Annual Meeting was held on July 23, 1997 and resulted in the following members being elected to serve as officers and Advisory Committee representatives during fiscal year 1997-98:

|               |  |
|---------------|--|
| Chairman      | Steve Arbelbide, California Steel Industries, Incorporated                       |
| Vice-Chairman | Victor Barrion, Mountain Vista Power Generation Company<br><i>(Formerly SCE)</i> |
| Secretary     | Traci Stewart, Chief of Watermaster Services                                     |
| Treasurer     | Alice W. Lichti, Watermaster Controller  |

Representatives as shown below were designated to serve on the Watermaster Advisory Committee during fiscal year 1997-98. A complete list of member entities and their designated representatives is included as Appendix A-2.

|                 |   |
|-----------------|---|
| Steve Arbelbide | California Steel Industries, Incorporated |
| Victor Barrion  | Mountain Vista Power Generation Company   |
| Lee Redmond III | Kaiser Ventures, Incorporated             |

During fiscal year 1997-98, three regular meetings and seven Joint Pools and Advisory Committee meetings were held to act on matters affecting the members of this pool and to discuss actions to be forwarded by the Advisory Committee to the Watermaster Board. It has been the practice of this pool committee to waive compensation for meeting attendance.

**C. Appropriative Pool**

Each year, an annual election is held to nominate officers to serve on the Appropriative Pool Committee and Advisory Committee for the next fiscal year. The Annual Meeting was held on July 23, 1997 and resulted in the following members being elected to serve as officers during fiscal year 1997-98:

|               |   |
|---------------|---|
| Chairman      | Robert DeLoach, Cucamonga County Water District |
| Vice-Chairman | Edwin James, Jurupa Community Services District |
| Secretary     | Traci Stewart, Chief of Watermaster Services    |
| Treasurer     | Alice W. Lichti, Watermaster Controller         |

During fiscal year 1998-99, three regular meetings and seven Joint Pools and Advisory Committee meetings were held to act on matters affecting the members of this pool and to discuss

actions to be forwarded by the Watermaster Advisory Committee to the Watermaster Board. A complete list of member entities and their designated representatives is included as Appendix A-3.

**D. Advisory Committee**

The Annual Meeting was held on July 23, 1997. At this meeting, it was decided to return to the rotation process that was practiced in previous years for the designation of committee officers. As a result, the following members were selected to represent their pools on the Advisory Committee for fiscal year 1997-98:

|                   |  |
|-------------------|--|
| Chairman          | Gene Koopman, Agricultural Pool              |
| 1st Vice-Chairman | Robert De Loach, Appropriative Pool          |
| 2nd Vice-Chairman | Steve Arbelbide, Non-Agricultural Pool       |
| Secretary         | Traci Stewart, Chief of Watermaster Services |
| Treasurer         | Alice W. Lichti, Watermaster Controller      |

A complete list of Advisory Committee members is included as Appendix A-4.

During fiscal year 1997-98, four regular meetings, three special meetings and seven Joint Pools and Advisory Committee meetings were held to act on matters affecting the pools and to discuss actions to be forwarded by the Watermaster Advisory Committee to the Watermaster Board.

**E. Special Ad Hoc Committees and Workshops**

During fiscal year 1997-98, forty-nine regular meetings, special ad hoc meetings or workshops and one special hearing were held as indicated below:

- Fifteen Watermaster Board Meetings
- Seven Advisory Committee Meetings
- Three Appropriative Pool Meetings
- Three Overlying (Non-Agricultural) Pool Meetings
- Five Overlying (Agricultural) Pool Meetings
- Seven Joint Pools and Advisory Committee Meetings
- Six Ad-hoc Committee Meetings
- Two workshops
- One Hearing before Anne Schneider, Special Referee

Information regarding all committee meetings and/or special ad-hoc meetings and workshops is available and may be reviewed by any interested party by contacting the Watermaster business office, at 8632 Archibald Avenue, Suite 109, Rancho Cucamonga, CA 91730. All requests must be in writing and are accepted via regular mail or facsimile.

**IV. ADMINISTRATION OF THE JUDGMENT**

**A. Watermaster Insurance Coverage**

Chino Basin Watermaster insurance coverage was continued effective September 30, 1997 through Schrimmer Insurance Agency. Coverage includes a Business Liability Package, Auto Liability Package and Public Officials Liability.

**B. Unqualified Audit Opinion and Annual Audit Report**

For the period ended June 30, 1998, Conrad & Associates, LLP submitted an Unqualified Audit Opinion and Audit Report to the Chino Basin Watermaster, which is included as Appendix M.

**C. Engineering Services**

During fiscal year 1997-98, engineering services were continued through Mark J. Wildermuth Water Resources Engineer, for projects within the Chino Basin. Collaborative projects with the Chino Basin Water Conservation District regarding water sampling and recharge capabilities were also continued during this period. They are discussed separately in the special project portion of this annual report.

During fiscal year 1997-98, it was decided Wildermuth Environmental Inc., (formerly the firm of Mark J. Wildermuth, Water Resources Engineer) was most able to assist the Watermaster Board and the Advisory and Pool Committees with developing the Optimum Basin Management Program, as mandated by the February 19, 1998 court ruling. For a summary of the activities undertaken by the committees, the Board and for specific tasks assigned to Mr. Wildermuth please refer to the sections entitled, OBMP and Special Projects in this annual report.

**D. Legal Services**

On March 5, 1998 the new nine-member Watermaster Board approved a recommendation to retain Wayne K. Lemieux from the firm of Lemieux & O'Neill to serve as Watermaster General Legal Counsel and authorized an ad-hoc board committee to negotiate an appropriate contract. Prior to that period, James Markman from the firm Markman, Arcynski, Curley and Slough was retained as Special Counsel to the Advisory Committee. The Advisory Committee is currently not represented as a collective party, but individual members utilize their own legal counsel, as they deem necessary. The firm of Nossaman, Guthner, Knox & Elliot continued to represent Chino Basin Watermaster and Chino Basin Municipal Water District on the Markot case and the firm Reid and Hellyer continued to provide services to the Overlying (Agricultural) Pool Committee on matters of concern to the pool. Specialized services were also provided on behalf of the Watermaster Advisory Committee by Robert Dougherty, from the firm of Covington & Crowe.

**E. Assessments**

The Judgment provides for separate and distinct replenishment assessment formulas for each of the three pools. The administrative assessment formula for each pool is determined on a per acre-foot basis, for each acre-foot of water produced by that pool. Costs per acre-foot vary among the pools in accordance with their respective total budgeted amounts for pool administration and total production during the previous production period. Costs to replace any water extracted in excess of

each respective pool's share of operating safe yield are recovered by the application of the following replenishment assessment formulas:

**1. Overlying (Agricultural) Pool**

The Overlying (Agricultural) Pool pays assessments on a gross basis, such that the total cost of the replenishment water plus the estimated associated spreading costs are divided equally on each acre-foot of water produced during the previous production year. One member of this pool, Los Serranos Country Club, was also assigned to the Appropriative Pool. Under this special arrangement, Los Serranos is assessed as an appropriator on the portion of its production (65%) that serves an area outside the Chino Groundwater Basin's adjudicated boundary. Los Serranos pays a 100% net replenishment assessment on this portion of its production.

By action taken at the Appropriative Pool Committee meeting on June 7, 1988, the Appropriative Pool assumes the administrative and special project costs of the Overlying (Agricultural) Pool. In exchange, it was agreed to accelerate the reallocation or transfer of all unpumped agricultural water to the Appropriative Pool from once every five years to each fiscal year. This became effective fiscal year 1987-88 and has been continued each year thereafter.

The total administrative and special projects assessment levied against the Overlying (Agricultural) Pool for fiscal year 1997-98 was \$594,169. The Appropriative Pool members were assessed \$15.17230 per acre-foot for each acre-foot of water reallocated to them. This was calculated at \$594,169 divided by the total number of acre-feet to be reallocated during the fiscal year (or 39,161.430 acre-feet).

Reported production from the pool declined from 96,567 acre-feet in fiscal year 1974-75, to 83,934 acre-feet in fiscal year 1977-78. The Committee decided in fiscal year 1978-79 to purchase and place, 2,000 acre-feet of replenishment water in a local storage account. This was done to provide for a potential increase in production during the balance of the five-year period. However, because production of the Overlying (Agricultural) Pool continued to decline, the pool members decided during fiscal year 1987-88 to sell the water they had placed in storage. Revenue from the sale was placed in a restricted, interest earning account for future use by the Overlying (Agricultural) Pool, as became necessary. Due to the potential benefit to the basin, a request from the newly formed Santa Ana River Water Group to assist with start up costs was approved by the pool during fiscal year 1997-98 for the amount of \$3,000. It was paid from the reserve account that was previously established as a result of the sale of 2,000 acre-feet of stored water. Through June 30, 1998, proceeds from the sale, including interest earned, totaled \$430,005.15.

## **2. The Overlying (Non-Agricultural) Pool**

Assessments for this pool are based on a net replenishment formula. This formula applies the current cost of replenishment water plus the estimated spreading costs to each acre-foot of water produced in excess of a producer's share of safe yield.

The fiscal year 1997-98 budgeted administrative and special projects assessment for the Overlying (Non-Agricultural) Pool was calculated at \$6.5445 per acre-foot. Replenishment costs were assessed in the amount of \$233.00 per acre-foot (\$233 plus \$4.15 per acre-foot of spreading costs, which did not include a \$2.75 fiscal year 1998-99 per acre-foot administrative charge (levied by Chino Basin Municipal Water District later in the year) on each acre-foot of production in excess of each producer's share of the operating safe yield.

## **3. The Appropriative Pool**

In the Appropriative Pool, the following members pay replenishment assessments on a net basis, which includes the current cost of replenishment water plus the estimated cost of spreading. In fiscal year 1997-98, these costs were \$233.00 plus \$4.15 per acre-foot of water produced:

- Arrowhead Mountain Spring Water Company
- Los Serranos Country Club
- Marygold Mutual Water Company
- City of Pomona
- Pyrite Canyon Group
- MWD

The City of Norco pays replenishment on a net basis for any replenishment obligation in excess of 1,567.000 acre-feet. Any replenishment necessary by the City of Norco up to the 1,567.000 acre-feet is assessed under the 85/15 formula as discussed below.

The remaining Appropriative Pool members (and City of Norco less than 1,567 acre-feet) are assessed under the 85/15 formula. This formula assesses the total cost of replenishment water in two ways:

- 15% on a gross basis, uniformly among all producers on each acre-foot produced;
- 85% on a net basis, on each acre-foot of production over a producer's share of the operating safe yield.

In fiscal year 1997-98, the Appropriative Pool members who participated in the 85/15 formula were assessed \$7.77043 per acre-foot for the gross 15% assessment and \$201.57750 per acre-foot for the 85% net assessment, respectively. In addition, each producer was assessed \$2.7283 per acre-foot to cover the budgeted administrative and special project costs for the pool.

**F. Fiscal Year 1998-99 Watermaster Budget**

A summary of the Fiscal Year 1998-99 Watermaster Budget as shown on page one of the Watermaster assessments for Fiscal Year 1998-99 is included in Appendix C. The budget was ratified by Watermaster on June 11, 1998. Many times Watermaster budgets are amended or modified during the process of developing the Watermaster assessment package and levying the subsequent fiscal year assessments. Finalized budgets are included in Appendix C depending on the Watermaster process.

**G. Special Projects**

Special projects are initiated by separate work orders (either verbal or written, as a result of some committee actions) and approved by the pool committees, the Advisory Committee and the Watermaster Board. Special projects are defined in the Judgment as projects to be undertaken for other than general administration of the Judgment. Additional special project funds are designated and budgeted as required to carry out the basin management plan. The new or existing special projects described below were approved for fiscal year 1998-99.

**1. The Well Inspection and Meter Installation Project (for the Overlying Agricultural Pool)**

This project was originally initiated in 1978, to provide a service to those parties under the Judgment who are required to purchase and install meters in order to accurately report well production. A renewed effort to accomplish this as part of the Judgment began in 1992. Since that time, approximately 650 to 700 active wells have been located and inspected. Following the field inspections, Watermaster staff made a recommendation regarding the type and placement of each meter for each well. The choices were either kilowatt hour, hour, or in-line flow meters. Wells either had meters installed or data was being accumulated through a kilowatt hour meter. Additionally, 250 wells in an inactive or abandoned status were also inspected during the project. The purpose of this project is to insure that all wells with an annual production of 10 acre-feet or greater are equipped with an operational and accurate measuring device.

To improve the accuracy of the reported production, the project also provided for plumbing modifications, repair of previously installed, non-functioning in-line flow meters, and installation of meters on previously unmetered wells. Additionally, owners and users were identified; well numbers were assigned; and each well was tagged, photographed and assigned the appropriate status. Each well inspection report is on file at the Watermaster business office.

## **2. The Metering Program**

The Judgment, Paragraph 21, Measuring Devices and Paragraph 54, Administrative Expense, is intended to cause the testing and calibration of every propeller-type meter in the Chino Groundwater Basin, at least once every two years, in an effort to obtain more accurate production records on each well. In 1992, Paragraph 3.07.1 of the Watermaster Rules and Regulations, was added to require installation, testing and calibration of other meter types, such as kilowatt-hour on hour meters, on an annual basis.

## **3. The Monitoring Program**

This project is comprised of two primary tasks, collecting water samples and obtaining water level readings. Task 1 is the portion of the program necessary to collect groundwater quality samples and water levels, and to extract data from the DHS (Department of Health Services) and the RWQCB (Regional Water Quality Control Board) records.

This task represents the majority of Watermaster staff effort in this regard. Water quality sample data was collected from over 60 agricultural wells. Water level data was obtained on over 300 agricultural wells. This program allowed the agricultural producers to avoid the imposition of individual monitoring requirements by the RWQCB in the past.

Task 2 consists of compiling lab data, checking the data for accuracy and completeness, preparing maps showing TDS, groundwater level and nitrate contours, and preparing the necessary monitoring reports.

An integral part of the monitoring program is to precisely locate the wells with GPS (global positioning system) equipment. This information is being gathered for over 1,000 wells in the Chino Groundwater Basin. By the end of the fiscal year, data had been collected on 600 wells. This data fixes the position of each well with longitude and latitude coordinates within an accuracy of two meters. The water quality and water level monitoring data and the GPS well positioning data is entered in the Watermaster database and will eventually be used to improve the accuracy of the various models and analytical tools used by Watermaster engineers.

## **4. TDS/Nitrogen Study**

The purpose of this study, which is being managed by SAWPA (Santa Ana Watershed Project Authority), is to reevaluate the wasteload allocations, the basin plan objectives, and zones established for the Santa Ana River and the surrounding groundwater basins. In 1994, the RWQCB (Regional Water Quality Control Board) updated the Basin Plan for the Santa Ana River Watershed. The allowable reclaimed water use, the surface and

groundwater TDS and nitrogen objectives, the groundwater basin and sub-basin boundaries, and the various

beneficial uses that must be protected and preserved are established in the Basin Plan.

Following are some of the tasks to be completed in this study:

- Identify the effect on receiving and downstream water quality and quantity from increased reclamation by type of reclamation use.
- Determine the impact of changes on the quality of receiving water in groundwater basins.
- Compare any proposed water quality changes to existing legal and institutional arrangements to determine if changes in water quality objectives can be made, and determine if the evidence supports a change.
- Recommend appropriate basin/sub-basin boundaries (based on water quality, manageability and hydrology).
- Identify the impact of changes in objectives on the basins, the river reaches and the on-off river areas.

Additional participation was approved by Watermaster in 1997. Phase 1B included the following tasks:

- Develop hydrologic methods.
- Develop socio-economic impact methods.
- Develop water quality monitoring plan(s).
- Support regulatory approval process.

## **5. Chino Basin Recharge Master Plan**

Approved in 1995 and undertaken in cooperation with the CBWCD (Chino Basin Water Conservation District), Watermaster participated in the preparation of a Chino Basin Recharge Master Plan. The study was conducted by Wildermuth Environmental, Inc. and the Phase 1 Final Report was completed in January 1998. The objective of the Recharge Master Plan is to evaluate local recharge capabilities based on a range of estimated percolation rates and recommend research and engineering studies to be conducted in later phases.

Phase I included initial screening and assessment to estimate the amount of runoff currently recharged and the amount of additional recharge that could occur at new and existing spreading basins. A list of promising spreading basins was developed. The Phase I final report:

- Describes existing and potential spreading facilities.
- Developed recharge estimates.
- Analyzed the current Chino Basin safe yield.
- Developed a recommendation for Phase 2.

Phase 2 was to consist of site specific investigations including percolation monitoring and the preparation of cost estimates for developing and managing these basins. As a result of discussions during the year, CBWCD (Chino Basin Water Conservation District) and Watermaster staff recommended identification of high priority recharge projects and collection

of site-specific data at some of the most promising sites. Staff gages were installed and some core borings were made at specific spreading locations. Additionally, the Watermaster and the CBWCD collaborated on projects that could provide immediate benefits as well as collect necessary data.

## **6. Chino Basin Surface Water Quality Testing Program**

During fiscal year 1996-97, the Watermaster approved participation in a surface water quality-testing program undertaken in cooperation with the Conservation District to collect and analyze surface water quality in the spreading basins. The program consisted of taking a specified number of samples of water in various spreading basins located within the groundwater basin after the occurrence of local rainstorms. During fiscal year 1997-98, Watermaster and CBWCD staff collected 192 samples. The samples were then sent to an independent laboratory and analyzed for water quality. The lab results were sent to Wildermuth Environmental, Inc. to be included in the groundwater monitoring report. As part of this process, Watermaster staff entered the lab data in a program written by Mr. Wildermuth to check the sample cation/anion balance. The Groundwater Monitoring Report covering fiscal years 1995-96 and 1996-97 was received in October 1997.

## **7. Optimum Basin Management Program**

On February 19, 1998, the Honorable Judge J. Michael Gunn ruled that the Watermaster must develop an OBMP (Optimum Basin Management Program) by September 30, 1999. Development of the OBMP requires three parallel processes: institutional, engineering, and financial. The institutional process defines the management agenda, directs the engineering and financial processes, and builds an institutional consensus for OBMP implementation. The engineering process develops planning data and evaluated the technical and economic performance of the OBMP proposals. The financial process develops alternative financing plans for the OBMP through its evolution. These processes provide feedback to each other during the OBMP development process.

The institutional process consists of the following tasks:

- Task 1 Identify needs and interests of interested parties.
- Task 2 Establish a meeting schedule necessary to complete OBMP within the time frame allocated.
- Task 3 Develop and refine the scope of work based on identified needs.
- Task 4 Identify early implementation actions and develop a list of potential program elements of the OBMP to balance needs and interests expressed.
- Task 5 Evaluate program elements and develop recommended management and implementation plan.

The first three tasks were completed with the submission of the recommended scope of work to the Special Referee and the Court. Task 4 was begun in June 1998 with several

early implementation actions items having already been approved and with initial management concepts submitted to begin the list of potential components of the OBMP. The management

concepts being submitted represent concepts or implementation plans that describe the parties' vision of the OBMP. Submissions of management concepts were scheduled to continue into July and August of 1998 and reflected the needs and interests that were previously identified for the OBMP. All proposals submitted were to be discussed and listed.

Task 5 will determine those proposals that appear the most promising. They will then be forwarded to the engineering and financial consultants for reconnaissance level, technical, economic and financial analyses. The results of the engineering and financial analyses will be submitted back to the producers and Watermaster for review. This process is anticipated to be lengthy and iterative and should continue as long as necessary within the time constraints described in the Judge's ruling.

Working together, the producers and the Watermaster Board will, by the conclusion of Task 5, recommend an Optimum Basin Management Program. The recommendation will include a proposed implementation plan.

The engineering process consists of the following tasks:

- Task 1      Develop Optimum Basin Management Program Criteria.
- Task 2      Assess the Current State of the Basin.
- Task 3      Prepare Sections 1, 2, and 3 of the OBMP document.
- Task 4      Develop the Components of the OBMP.
- Task 5      Develop an Implementation Plan
- Task 6      Finalize the OBMP Document.

Tasks 1 and 2 define the basin problems, planning environment, and the needs and interests of the basin producers. It is expected that Tasks 1, 2 and 3 will be completed early in fiscal year 1998-99. Additionally, Sections 1, 2 and 3 (Task 3) are expected to be completed and drafts will be forwarded to the Special Referee for review. The goals and objectives for the OBMP were circulated among the members of Watermaster, the producers, the special referee and other interested parties and should be finalized by November of 1998. A matrix was developed that contains the goals, impediments to the goals, action items to achieve the goals and the implication of the action items. This matrix will be used to define the necessary program elements of the OBMP. Tasks 4 and 5 are engineering efforts to develop these elements and to describe the implementation process. The final OBMP document will be developed in Task 6.

The financial process will develop financing plans for the individual program elements within the OBMP and where appropriate combinations of OBMP elements. The financial process includes the following activities:

- Review the economic analyses of the elements of the OBMP.
- List the available funding sources that may be appropriate.
- Describe the terms and conditions for these sources.
  
- Describe the requirements and procedures for obtaining funding from these sources.
- Describe the timeline for obtaining funding from these sources.
- Develop a robust financial plan for the final OBMP including:
  - Palette of funding sources.
  - Administrative activities.
  - Institutional activities (lobbying, partnering, etc.)

For additional information, contact the Watermaster office.

#### **H. Mailing Lists**

Mailing lists of the active parties are updated on a routine basis through the use of the United States Post Office "Address Correction Requested Service," whereby any address change reported to them is provided to Watermaster after each mailing. File changes are made upon receipt of notice from the post office and from other sources of address change. A current listing of active parties is available for review upon request.

#### **I. New Party Interventions**

New Party Interventions are accumulated on a regular basis as land ownership changes or new parties begin production. Changes in ownership are most frequently discovered during the production reporting and well inspection processes. New party production is normally discovered when Watermaster staff locates new wells during routine field inspections. Parties who no longer own property with water production facilities are considered inactive and are accounted for as such. During fiscal year 1997-98, three petitions for intervention were received and approved with a recommendation they be forwarded to the Court for confirmation, as part of the Annual Report. (See Appendix J.)

#### **J. Redetermination of the Chino Groundwater Basin's Safe Yield**

On June 30, 1998, the Chino Basin Watermaster Program closed its Twenty-first year of operation under the Judgment. Beginning June 30, 1982 redetermination of the Chino Groundwater Basin's safe yield could be considered. There were no changes recommended during the fiscal year.

Pursuant to Exhibit I, Page 80, Paragraph 2b of the Judgment, Quantitative Limits: "In no event shall Operating Safe Yield in any year be less than the Appropriative Pool's share of Safe Yield, nor shall it exceed such share of Safe Yield by more than 10,000 acre-feet. The initial Operating Safe Yield is hereby set at 54,834 acre-feet per year. Operating Safe Yield shall not be changed upon less than five years notice by Watermaster." Pursuant to this provision of the Judgment, Watermaster hereby posts its fifteenth "Notice of Intent to Change the Safe Yield in the Chino Groundwater Basin" as shown in Appendix K.

## **V. RESOURCES MANAGEMENT**

### **A. Quarterly Accounting of Water Production**

Production request forms are mailed to users of all active wells in the Chino Basin on a quarterly basis. The Overlying (Agricultural) Pool's quarterly production was compiled from meter readings taken on those wells equipped with water measuring devices. On wells without measuring devices, a water duty method, which relates the acreage of crops grown or the number of animals maintained to water use in acre-feet, was used to compute the production for those users without measuring devices.

### **B. SBCFCD (San Bernardino County Flood Control District Agreement)**

During fiscal year 1997-98 spreading activity increased due to the availability of high quality water from CBMWD through MWD (Metropolitan Water District). The expired agreement with the SBCFCD was attached to a spreading permit from the Flood Control District to allow the use of the spreading basins during the fiscal year. Negotiations on a new spreading agreement will commence when the OBMP is finalized (anticipated in October 1999).

### **C. San Sevaine Creek Water Project Agreement**

During the past four years, the potential impact on the basin's natural recharge from the proposed San Sevaine Creek Water Project caused a considerable amount of concern among Watermaster Committee members. Several meetings were held with SBCFCD regarding the potential impact of channel lining. Concern was raised that the SBCFCD had not made an adequate demonstration that the project would mitigate the loss of storm flow recharge that now occurs through the existing unlined channels.

In January of 1998, SBFCD proposed allowing CalTrans to remove a substantial amount of material for construction of the I15/I30 interchanges from Basins 1 through 5. This could have adversely impact Watermaster's ability to spread water in Basins 1 through 5. Subsequently, after several meetings, alternative sources of fill were located for CalTrans and only Basin 5 from the San Sevaine Project is being used for this purpose.

### **D. Cyclic Storage Agreement**

Cyclic storage is defined in the Uniform Groundwater Rules and Regulations Paragraph 1.2.2 Cyclic Storage, as the "pre-delivery of replenishment water." The Cyclic Storage Agreement with Metropolitan Water District (Met) was extended for an additional period of one year while the pool committees continued workshops regarding storage limits. The Sixth Amendment to the Cyclic Storage Agreement was approved by the Watermaster Board on March 5, 1998. The Agreement and

a summary of the cyclic storage account activity during fiscal year 1997-98 are included as Appendices L and E-2 respectively.

**E. Stringfellow Acid Pits**

During fiscal year 1985-86, each pool committee addressed various mitigation measures in regard to the Stringfellow Acid Pits. The Committees determined the need for a cooperative effort throughout the water industry in dealing with contamination problems in the Chino Groundwater Basin. Pursuant to the Watermaster Advisory Committee's action, Watermaster petitioned the Court to allow the export of a maximum of 300 acre-feet of water annually. The Court approved the petition in November of 1985. During fiscal year 1997-98, 82.977 acre-feet of contaminated wastewater was removed and exported from the site. As of June 30, 1998, 496.977 acre-feet of contaminated water has been exported from the Stringfellow Acid Pits.

**F. Local Water in Storage for Recapture/Sales/Transfers**

Recapture, sales and transfers of water in local storage entered into among the Appropriative and Overlying (Non-Agricultural) Pool members during fiscal year 1997-98 totaled 19,443.915 acre-feet (see Appendix I-1).

**G. Transfers or Leases of Water Rights**

Water Rights Lease Agreements, negotiated among the Appropriative Pool members during fiscal year 1997-98 totaled 30,299.269 acre-feet (see Appendix I-2).

**H. Assignments**

Pursuant to the Judgment, Exhibit G, Paragraph 6, Assignment, " Any appropriator who may, directly or indirectly, undertake to provide water service to such overlying lands may, by an appropriate agency agreement on a form approved by Watermaster, exercise said overlying right to the extent, but only to the extent necessary to provide water service to said overlying lands."

Appendix I-3 included the quantities of water assigned in fiscal year 1997-98. Previously, assignments were not recorded in the Annual Report, however they were a part of the Summary of Groundwater Production filed with the Court each year.

**I. Local Storage**

**1. Storage Limits**

During fiscal year 1997-98, the pool committees continued to consider the establishment of storage limits and to consider what losses, if any, should be assigned to local water in storage. Due to the activities and workshops necessary to address transitioning to a new Watermaster and the development of an Optimum Basin Management Program, the process of setting storage limits and assigning losses continued into the next fiscal year. The Advisory Committee took action to cap the amount of water that could be stored to include

water in storage as of June 30, 1997. During the fiscal year, storage management became an element of the OBMP and storage limits will be addressed as it is developed.

**2. Local Storage Agreements**

In fiscal year 1997-98, a Local Storage Agreement was approved in the amount of 34,023.843 acre-feet for Monte Vista Water District. No supplemental water was imported, either directly or by exchange to be stored under this agreement.

## APPENDIX A-1

### OVERLYING (AGRICULTURAL) POOL COMMITTEE FISCAL YEAR 1997-98

| <u>Regular Members</u>              | <u>Alternate</u>                                 | <u>Representing</u> |
|-------------------------------------|--|---------------------|
| *George Borba Jr.                   | *John Borges                                     | Dairy               |
| Robert DeBerard, <b>Chairman</b>    | Bernard (BJ) Teunissen                           | Grapes              |
| Rick Buffington                     | Charles Davis, PIA/CIM**<br>Frank Lopez, CIW     | State of CA         |
| *Jenny De Boer                      | Arlan Van Leeuwen                                | Dairy               |
| Dick Dykstra                        | Darin Dykstra                                    | Dairy               |
| *Jack Hagerman                      | *Sheila Andersen<br>*Fred Hector, CIW            | State of CA, CIM    |
| *Gene Koopman                       | *Mary Parente                                    | MPC                 |
| *Marilyn Levin, Deputy Atty General | Douglas Noble, AG's Office<br>Carlos Lozano, YTS | State of CA         |
| Dana Oldenkamp                      | Bob Feenstra                                     | MPC                 |
| Jeff Pierson                        | Ray Allard                                       | Unitex/Corona Farms |

\*Newly elected members for a two-year term.

\*\*Charles Davis replaced Robert Bridges.

Committee members from the State of California waive compensation.

At the Annual meeting it was decided that alternates would be selected to represent specific agricultural interests.

## APPENDIX A-2

### OVERLYING (NON-AGRICULTURAL) POOL COMMITTEE FISCAL YEAR 1997-98

| <u>Member Entity</u>  | <u>Representative</u>                               |
|---|---|
| Ameron  | Mark Ward   |
| Angelica Rental Service                                       | Eric Vaughn   |
| California Steel Industries (CSI)                             | *Steve Arbelbide, <b>Chairman</b>                   |
| Calmat (Conrock)  | George Cosby  |
| General Electric Company                                      | Debra Hankins                                       |
| Kaiser Ventures Inc. (KVI)                                    | *Lee Redmond III                                    |
| Mobile Community Management<br>For Swan Lake Mobile Home Park | David Starnes                                       |
| Praxair   | Mike Stenberg                                       |
| San Bernardino Cnty Dept. of Airports                         | Robert Olislagers                                   |
| Sunkist Growers Inc.  | David Cooper  |
| *Mountain Vista Power Generation Co                           | *Vic Barrion, <b>Vice-chairman</b><br>*Rick Darnell |
| Space Center Mira Loma  | Michael Thies                                       |
| California Speedway   | Les Richter   |
| *Advisory Committee Representatives                           |   |

George Cosby replaced Scott Wilcott during FY97-98. SCE was purchased by Mountain Vista Power Generation Company. Watermaster approved the intervention on May 27, 1998 and it will be forwarded to the Court as part of this 21<sup>st</sup> Annual Report.

APPENDIX A-3

APPROPRIATIVE POOL COMMITTEE  
FISCAL YEAR 1997-98

| <u>Member Entity</u>                       | <u>Representatives</u>          |
|--|---------------------------------|
| Arrowhead Mt. Springs Water Comp.          | Scott Hendrix                   |
| Chino Basin MWD                            | Mark Kinsey                     |
| *Chino, City of                            | Dave Crosley                    |
| *Chino Hills, City of                      | Ron Craig/ Jim Taylor           |
| *Cucamonga County Water District           | Robert DeLoach, <b>Chairman</b> |
| Fontana, City of                           | Not named**                     |
| *Fontana Union Water Company               | Gerald Black                    |
| *Fontana Water Company                     | Mike McGraw                     |
| *Jurupa Community Services Dist.           | Edwin James, <b>Vice Chair</b>  |
| Los Serranos Country Club                  | Kevin Sullivan                  |
| Marygold Mutual Water Company              | Bill Stafford                   |
| Monte Vista Irrigation Company             | Harold Andersen                 |
| Monte Vista Water District                 | Joe Grindstaff**                |
| Norco, City of                             | Joe Schenk                      |
| *Ontario, City of                          | Ken Jeske                       |
| Pomona, City of                            | Henry Pepper**                  |
| Pyrite Canyon Group                        | Daniel Bergman                  |
| *San Antonio Water Co                      | Ray Wellington                  |
| Santa Ana River Water Comp.                | Arnold Rodriguez                |
| San Bernardino, County of                  | Dulcie Crowder                  |
| Southern California Water Comp.            | Chet Anderson                   |
| *City of Upland                            | Jim Moody                       |
| West End Cons. Water Comp.                 | Beverly Braden**                |
| *West San Bern. County Water District      | Anthony Araiza                  |
| <i>*Advisory Committee Representatives</i> |                                 |

\*\* Joe Grindstaff resigned effective June 30, 98. Henry Pepper replaced Charles Sihler at Pomona and Ken Jeske replaced Mike Teal at Ontario, during FY97-98. No new representative was named for the City of Fontana. City of Upland took over management of West End Consolidated Water Company and Beverly Braden was named as the representative.

APPENDIX A-4

ADVISORY COMMITTEE  
FISCAL YEAR 1997-98

***Agricultural Pool***

**Regular Members**

**Alternate Members**

George Borba Jr., Dairy

John Borges, Dairy

Rick Buffington, State of CA, CIM

Charles Davis, State of CA, PIA/CIM  
Frank Lopez, State of CA, CIW

Robert DeBerard, Grapes,

Bernard (BJ) Teunissen, Grapes

Jenny DeBoer, Dairy

Arlan Van Leeuwen, Dairy

Dick Dykstra, Dairy

Darin Dykstra, Dairy

Jack Hagerman, State of CA

Sheila Anderson, State of CA, CIM  
Fred Hector, State of CA, CIW

Gene Koopman, MPC, **Chairman**

Mary Parente, MPC

Marilyn Levin, Deputy AG, State of CA

Douglas Noble, AG's Office, State of CA  
Carlos Lozano, State of CA, YTS

Dana Oldenkamp, MPC

Bob Feenstra, MPC

Jeff Pierson, Unitex /Corona Farms

Ray Allard, Unitex/Corona Farms

***Non-Agricultural Pool***

**Member Entity**

**Representative**

California Steel Industries

Steve Arbelbide, **2<sup>nd</sup> Vice-chair**

Mountain Vista Power Gen. Co.

Vic Barrion/Rick Darnell

Kaiser Ventures Inc.

Lee Redmond III

***Appropriative Pool***

**Member Entity**

**Representative**

City of Chino

Dave Crosley

City of Chino Hills

Ron Craig

City of Ontario

Ken Jeske

City of Pomona

Henry Pepper

City of Upland

Jim Moody

Cucamonga County Water District

Robert DeLoach, **Vice chair**

Fontana Union Water Company

Gerald Black

Fontana Water Company

Mike McGraw

Monte Vista Water District

P. Joseph Grindstaff

Jurupa Community Services Dist.

Edwin James

San Antonio Water Company

Ray Wellington

A.W. Araiza

West San Bernardino County Water Dist.

*\*Non-major Appropriator representatives*

**APPENDIX B <sup>(1)</sup>**

**PRODUCTION BY POOL  
(ACRE-FEET)**

| FISCAL YEAR | APPROPRIATIVE POOL      | OVERLYING (AGRICULTURAL) POOL | OVERLYING (NON-AGRICULTURAL) POOL | TOTAL   |
|-------------|-------------------------|-------------------------------|-----------------------------------|---------|
| 74-75       | 70,312                  | 96,567                        | 8,878                             | 175,757 |
| 75-76       | 79,312                  | 95,349                        | 6,356                             | 181,017 |
| 76-77       | 72,707                  | 91,450                        | 9,198                             | 173,355 |
| 77-78       | 60,659                  | 83,934                        | 10,082 <sup>(2)</sup>             | 154,675 |
| 78-79       | 60,597                  | 73,688                        | 7,127                             | 141,412 |
| 79-80       | 63,834                  | 69,369                        | 7,363                             | 140,566 |
| 80-81       | 70,726                  | 68,040                        | 5,650                             | 144,416 |
| 81-82       | 66,731                  | 65,117                        | 5,684                             | 137,532 |
| 82-83       | 63,481                  | 56,759                        | 2,395                             | 122,635 |
| 83-84       | 70,558                  | 59,033                        | 3,208                             | 132,799 |
| 84-85       | 76,912                  | 55,543                        | 2,415                             | 134,870 |
| 85-86       | 80,859                  | 52,061                        | 3,193                             | 136,113 |
| 86-87       | 84,662                  | 59,847                        | 2,559                             | 147,068 |
| 87-88       | 91,579 <sup>(3)</sup>   | 57,865                        | 2,958                             | 152,042 |
| 88-89       | 93,617 <sup>(4)</sup>   | 46,762                        | 3,619                             | 143,998 |
| 89-90       | 101,344 <sup>(5)</sup>  | 48,420                        | 4,856                             | 154,620 |
| 90-91       | 86,658 <sup>(6)</sup>   | 48,085                        | 5,407                             | 140,150 |
| 91-92       | 91,982 <sup>(7)</sup>   | 44,682                        | 5,240                             | 141,904 |
| 92-93       | 86,367 <sup>(8)</sup>   | 44,092                        | 5,464                             | 135,923 |
| 93-94       | 80,798 <sup>(9)</sup>   | 44,298                        | 4,586                             | 129,682 |
| 94-95       | 93,419 <sup>(10)</sup>  | 55,022                        | 4,327                             | 152,768 |
| 95-96       | 101,606 <sup>(11)</sup> | 43,639                        | 5,424                             | 150,669 |
| 96-97       | 110,163 <sup>(12)</sup> | 44,809                        | 6,309                             | 161,281 |
| 97-98       | 97,435 <sup>(13)</sup>  | 43,345                        | 4,955 <sup>(14)</sup>             | 145,735 |

(1) Assessed production or production reported in Annual Reports

(2) Includes 3,945 AF of mined water pumped by Edison as agent for CBMWD.

(3) Does not include 7,674.3 AF exchanged with MWD.

(4) Does not include 6,423.6 AF exchanged with MWD.

(5) Does not include 16,377.1 AF exchanged with MWD

(6) Does not include 14,929.1 AF exchanged with MWD.

(7) Does not include 12,202.4 AF exchanged with MWD.

(8) Does not include 13,657.3 AF exchanged with MWD.

(9) Does not include 20,194.7 AF exchanged with MWD.

(10) Does not include 4,221.9 AF exchanged with MWD.

(11) Does not include 6,167.2 AF exchanged with MWD and reflects corrected production after reporting errors accounted for.

(12) There were no MWD exchanges in FY 96-97 and reflects corrected production after reporting errors were accounted for.

(13) Does not include 4,275.4 AF exchanged with MWD .

(14) Does not include 216.5 AF exchanged with MWD.

**APPENDIX C**

**SUMMARY OF ADMINISTRATIVE AND REPLENISHMENT ASSESSMENT BUDGETS  
FISCAL YEAR 1998-99**

**ON FILE AT WATERMASTER OFFICES**

**APPENDIX D**

**SUMMARY OF  
REALLOCATION OF UNPRODUCED OVERLYING (AGRICULTURAL) POOL  
SAFE YIELD FROM PRODUCTION YEAR 1996-97  
TO THE APPROPRIATIVE POOL FOR USE  
IN FISCAL YEAR 1997-98**

| MEMBER                                    | LAND USE CONVERSIONS |                       | BALANCE<br>AVAILABLE<br>(AF) | TOTAL<br>REALLOCATED<br>(AF) |
|---|----------------------|-----------------------|------------------------------|------------------------------|
|   | FIRST 50%            | REMAINING 50%<br>(AF) |                              |                              |
| Chino, City of                            | 1,791.335            | 530.606               | 1,733.565                    | 4,055.506                    |
| Chino Hills, City of                      | 718.986              | 277.733               | 907.392                      | 1,904.111                    |
| Cucamonga County Water District           | 598.364              | 476.096               | 1,555.474                    | 2,629.934                    |
| Fontana Union Water Company               |                      | 841.414               | 2,749.021                    | 3,590.435                    |
| Jurupa Community Services District        | 3,197.753            | 271.115               | 885.773                      | 4,354.641                    |
| Marygold Mutual Water Company             |                      | 86.199                | 281.625                      | 367.824                      |
| Monte Vista Water District                | 36.595               | 634.534               | 2,073.112                    | 2,744.241                    |
| Monte Vista Irrigation Company            |                      | 89.020                | 290.840                      | 379.860                      |
| Norco, City of                            |                      | 26.511                | 86.615                       | 113.126                      |
| Ontario, City of                          | 869.726              | 1,496.090             | 4,887.940                    | 7,253.756                    |
| Pomona, City of                           |                      | 1,475.312             | 4,820.055                    | 6,295.367                    |
| San Antonio Water Company                 |                      | 198.213               | 647.591                      | 845.804                      |
| Santa Ana River Water Company             |                      | 171.180               | 559.270                      | 730.450                      |
| Southern California Water Company         |                      | 54.125                | 176.833                      | 230.958                      |
| Upland, City of                           |                      | 375.199               | 1,225.830                    | 1,601.029                    |
| West End Consolidated Water Company       |                      | 124.660               | 407.284                      | 531.944                      |
| West San Bernardino County Water District |                      | 84.752                | 276.898                      | 361.650                      |
| <b>TOTALS</b>                             | <b>7,212.759</b>     | <b>7,212.759</b>      | <b>23,565.118</b>            | <b>37,990.636</b>            |

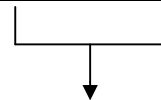
**Source: FY 1998-99 Assessment Package**

**APPENDIX E-1**

**SUMMARY OF MWD DELIVERIES <sup>(1)</sup>  
(ACRE-FEET)**

**FISCAL YEAR 1997-98**

| DATE         | WATER FACILITIES AUTHORITY<br>CB 12 |                |                 |                |                        | CB 1         | CB 7<br>&<br>CB 16 | TOTAL           | PM 15                 |
|--------------|-------------------------------------|----------------|-----------------|----------------|------------------------|--------------|--------------------|-----------------|-----------------------|
|              | UPLAND                              | CHINO          | CHINO<br>HILLS  | MVWD           | ONTARIO <sup>(3)</sup> | SCE          | CCWD               |                 | POMONA <sup>(2)</sup> |
| July         | 633.3                               | 491.8          | 1,514.4         | 356.5          | 1,171.0                | 0.0          | 2,067.4            | 6,234.4         | 1,017.0               |
| August       | 783.1                               | 540.8          | 1,539.3         | 437.4          | 1,081.0                | 24.9         | 2,420.3            | 6,826.8         | 1,205.0               |
| September    | 633.5                               | 518.1          | 1,393.6         | 340.5          | 941.5                  | 43.3         | 2,068.3            | 5,938.8         | 846.0                 |
| October      | 295.8                               | 375.3          | 1,170.7         | 132.3          | 844.5                  | 0.0          | 1,758.2            | 4,576.8         | 415.0                 |
| November     | 56.4                                | 298.9          | 704.0           | 96.7           | 441.0                  | 0.0          | 1,681.3            | 3,278.3         | 72.0                  |
| December     | 244.3                               | 264.3          | 377.2           | 86.8           | 0.0                    | 45.2         | 1,631.8            | 2,649.6         | 3.0                   |
| January      | 530.9                               | 231.4          | 368.8           | 158.4          | 0.0                    | 67.9         | 1,420.8            | 2,778.2         | 198.0                 |
| February     | 476.3                               | 195.4          | 328.4           | 451.0          | 0.0                    | 57.2         | 1,058.5            | 2,566.8         | 1,066.7               |
| March        | 0.0                                 | 261.4          | 490.4           | 536.8          | 0.0                    | 46.1         | 1,116.5            | 2,451.2         | 576.0                 |
| April        | 0.0                                 | 286.6          | 575.5           | 158.4          | 0.0                    | 0.0          | 1,320.2            | 2,340.7         | 131.0                 |
| May          | 0.0                                 | 362.5          | 793.9           | 184.1          | 0.0                    | 0.0          | 1,280.0            | 2,620.5         | 57.0                  |
| June         | 1.3                                 | 355.8          | 1,020.1         | 371.0          | 266.7                  | 0.0          | 1,281.5            | 3,296.4         | 148.0                 |
| <b>TOTAL</b> | <b>3,654.9</b>                      | <b>4,182.3</b> | <b>10,276.3</b> | <b>3,309.9</b> | <b>4,742.7</b>         | <b>284.6</b> | <b>19,104.8</b>    | <b>45,558.5</b> | <b>5,732.7</b>        |



Total MWD direct deliveries used in Chino Basin (including Pomona):

51,291.200

- (1) *A breakdown of categories of water is available upon request. Watermaster replenishment not included. Includes water exchanged with MWD.*
- (2) *Figures reflect 37.8% of the total MWD water delivered that was used over the Chino Basin (based on estimated land area physically located within the Chino Basin adjudicated boundary).*
- (3) *During FY97-98 Ontario did not take any deliveries through its CB-2 connection.*

**APPENDIX E-2**

**SUMMARY OF COOPERATIVE, REPLENISHMENT AND CYCLIC ACTIVITIES  
FISCAL YEAR 1997-98**

**(ACRE-FEET)**

| COOPERATIVE ACTIVITY |                           | DIRECT REPLENISHMENT ACTIVITY |                 |                  | CYCLIC ACTIVITY              |                      |                |
|----------------------|---------------------------|-------------------------------|-----------------|------------------|------------------------------|----------------------|----------------|
| MONTH                | PRODUCED FROM COOPERATIVE | CB-13T SAN SEVAINE            | CB-14T ETIWANDA | CB-59T MONTCLAIR | CYCLIC DELIVERED BY EXCHANGE | PRODUCED FROM CYCLIC | TOTAL          |
| July                 | 0                         | 0                             | 0               | 0                | 0                            | 0                    | 0              |
| August               | 0                         | 0                             | 0               | 0                | 0                            | 0                    | 0              |
| September            | 0                         | 0                             | 0               | 0                | 0                            | 0                    | 0              |
| October              | 0                         | 0                             | 0               | 1,981.5          | 0                            | 0                    | 0              |
| November             | 0                         | 0                             | 0               | 1,649.5          | 0                            | 0                    | 0              |
| December             | 0                         | 0                             | 0               | 2,017.1          | 51.5                         | 0                    | 0              |
| January              | 0                         | 0                             | 0               | 327.8            | 668.9                        | 0                    | 0              |
| February             | 0                         | 0                             | 0               | 0                | 2,136.1                      | 0                    | 0              |
| March                | 0                         | 0                             | 0               | 0                | 1,635.4                      | 0                    | 0              |
| April                | 0                         | 0                             | 0               | 997.1            | 0                            | 0                    | 0              |
| May                  | 0                         | 0                             | 0               | 441.2            | 0                            | 0                    | 0              |
| June                 | 0                         | 0                             | 0               | 908.4            | 0                            | 0                    | 0              |
| <b>TOTAL</b>         | <b>0</b>                  | <b>0</b>                      | <b>0</b>        | <b>8,322.6</b>   | <b>4,491.9</b>               | <b>0</b>             | <b>4,491.9</b> |

|  |          |   |         |
|--|----------|---|---------|
| Cyclic storage balance as of June 30, 1997 | 33,765.6 | Cooperative storage balance as of June 30, 1997 | 1,697.3 |
| Direct deliveries by spreading: 97-98      | 0.0      | Deliveries into account                         | 0.0     |
| Deliveries by exchange: 97-98              | 4,491.9  |   |         |
| Produced during 1997-98:                   | 0.0      | Produced during 1997-98                         | 0.0     |
| BALANCE as of June 30, 1998                | 38,257.5 | BALANCE as of June 30, 1998                     | 1,697.3 |

**BREAKDOWN OF MWD CYCLIC ACTIVITY**

|       | SCE   | MVWD    | UPLD    | POMONA  | NORCO | TOTAL   |
|-------|-------|---------|---------|---------|-------|---------|
| Dec   | 45.2  |         |         |         | 6.3   | 51.5    |
| Jan   | 68.0  | 158.4   | 244.3   | 198.2   | 0.0   | 668.9   |
| Feb   | 57.2  | 451.0   | 530.9   | 1,066.7 | 30.3  | 2,136.1 |
| Mar   | 46.1  | 536.8   | 476.3   | 576.2   | 0.0   | 1,635.4 |
| Total | 216.5 | 1,146.2 | 1,251.5 | 1,841.1 | 36.6  | 4,491.9 |

*MVWD has 1,697.3 AF in its Cooperative Storage Account with Met. There were no additional deliveries into cooperative storage during FY 97-98.*

**APPENDIX F**

**SUMMARY OF OTHER IMPORTED SUPPLIES  
FISCAL YEAR 1997-98**

**(ACRE-FEET)**

| MEMBER  | OTHER BASINS | SURFACE DIVERSIONS | OTHER IMPORTED SURFACE DIVERSIONS | RECYCLED WATER <sup>(11)</sup> |
|---|--------------|--------------------|-----------------------------------|--------------------------------|
| Chino Basin Municipal Water District <sup>(1)</sup> |              |                    |                                   | 1,260                          |
| Cucamonga County Water District <sup>(2)</sup>      | 9,461        | 6,883              |                                   |                                |
| Fontana Water Company <sup>(3)</sup>                | 15,062       | 6,418              |                                   |                                |
| Marygold Mutual Water Company <sup>(4)</sup>        |              |                    | 1,283                             |                                |
| Metropolitan Water District <sup>(5)</sup>          |              |                    | 46,816                            |                                |
| Pomona, City of <sup>(6)</sup>                      | 3,156        | 1,778              |                                   |                                |
| San Antonio Water Company <sup>(7)</sup>            | 1,658        | 3,832              |                                   |                                |
| State of California, CIM <sup>(8)</sup>             |              |                    |                                   | 899                            |
| West End Consolidated. Water Co <sup>(9)</sup>      | 4,320        |                    |                                   |                                |
| West San Bernardino CWD <sup>(10)</sup>             | 5,693        | 1,428              |                                   |                                |
|   | 39,350       | 20,339             | 48,099                            | 2,159                          |

**TOTAL**                    **106,360** (see footnotes 10 and 11)

- (1) *Chino Basin Municipal Water District delivered 689.7 AF to Whispering Lakes Golf Course and 570.1 AF for use at El Prado Park and Golf Course.*
- (2) *Includes water produced from Cucamonga Basin and local runoff captured from Day Creek, Deer Canyon and water treated at WTP's.*
- (3) *Includes water pumped from other basins and Lytle Creek surface water production.*
- (4) *Includes 1283 AF produced from wells owned by the City of Rialto, located in the Rialto Basin.*
- (5) *Includes total MWD water delivered to IEUA service area (51,291 AF as shown on E-2 and 16.5 AF direct spreading into Cyclic account). Excludes 5,732.7 AF delivered to Pomona which is shown separately and 4,491.9 exchanged into cyclic.*
- (6) *Includes 800 AF from Pomona Basin, 2,097 AF from Claremont Basin and 5,733 AF MWD water delivered to Pomona through Three Valleys MWD and used in Chino Basin.*
- (7) *Includes water from Cucamonga Basin, Claremont Basin, the San Antonio Tunnel and the Main Box.*
- (8) *Recycled wastewater that was applied to fields, including water held in storage ponds.*
- (9) *Includes 3,620 AF from Claremont Heights Basin and 700 AF from Cucamonga Basin.*
- (10) *Includes 1,428 AF delivered to City of Rialto (shown only not included in summary as it is not in CBWM boundary, and 5,693 AF delivered in "meter book" service area.*
- (11) *Recycled water totals are not included in summary total as it is not an "imported" supply as are the other quantities of water shown.*

**APPENDIX G**

**TOTAL WATER USED WITHIN CHINO BASIN <sup>(1)</sup>**

**(ACRE-FEET)**

| FISCAL YEAR | CHINO BASIN EXTRACTIONS <sup>(2)</sup> | OTHER IMPORTED SUPPLIES <sup>(3)</sup> | TOTAL   |
|-------------|--|--|---------|
| 1974-75     | 175,757                                | 49,383                                 | 225,140 |
| 1975-76     | 181,017                                | 57,686                                 | 238,703 |
| 1976-77     | 173,355                                | 55,765                                 | 229,120 |
| 1977-78     | 154,675                                | 61,567                                 | 216,242 |
| 1978-79     | 142,412                                | 75,864                                 | 217,276 |
| 1979-80     | 140,566                                | 70,727                                 | 211,293 |
| 1980-81     | 144,416                                | 77,765                                 | 222,181 |
| 1981-82     | 137,532                                | 67,491                                 | 205,023 |
| 1982-83     | 122,635                                | 76,000                                 | 198,635 |
| 1983-84     | 132,799                                | 99,257                                 | 232,056 |
| 1984-85     | 134,870                                | 92,952                                 | 227,822 |
| 1985-86     | 136,113                                | 114,624                                | 250,737 |
| 1986-87     | 147,068                                | 126,493                                | 273,561 |
| 1987-88     | 152,402                                | 116,175                                | 268,577 |
| 1988-89     | 143,998                                | 128,167                                | 272,165 |
| 1989-90     | 154,620                                | 139,004                                | 293,624 |
| 1990-91     | 140,151                                | 116,493                                | 256,644 |
| 1991-92     | 141,904                                | 104,480                                | 246,384 |
| 1992-93     | 135,923                                | 117,205                                | 253,128 |
| 1993-94     | 129,682                                | 136,038                                | 265,720 |
| 1994-95     | 152,768                                | 116,797                                | 269,565 |
| 1995-96     | 150,669                                | 130,494                                | 281,163 |
| 1996-97     | 161,281 <sup>(4)</sup>                 | 115,031                                | 276,312 |
| 1997-98     | 145,735                                | 106,360                                | 252,095 |

- (1) Total includes water used over Cucamonga Basin.
- (2) Source: Watermaster Assessment Packages. Total production in Appropriative Pool of 97,218 AF(excludes exchanges) plus Non-Ag production (excludes exchanges and a portion of GE production) of 5,171,577 AF and Ag Pool production in the amount of 43,344.680 AF.
- (3) Total does not include recycled water, cyclic deliveries, water delivered by exchange, or water from direct spreading that was used for replenishment (see Appendices E, E-2 and F).
- (4) Reflects corrected production after reporting errors were accounted for.

APPENDIX H

LOCAL STORAGE ACCOUNT STATUS  
FISCAL YEAR ENDED JUNE 30, 1998

| APPROPRIATIVE POOL                        | NO. # | DATE OF AGREEMENT(S) | AMOUNT OF AGREEMENT(S) | AMOUNT IN STORAGE  | TOTAL              |
|---|-------|----------------------|------------------------|--------------------|--------------------|
| Chino, City of                            | 12    | 01/23/85             | 15,000.000             | 2,775.327          | 2,775.327          |
| Chino Hills, City of                      | 18.1  | 04/06/88             | 15,000.000             | 18,394.620         | 18,394.620         |
| Cucamonga County Water District           | 10    | 05/30/84             | 5,000.000              | 5,000.000          | 39,664.371         |
|   | 10.1  | 05/06/87             | 5,000.000              | 5,000.000          |                    |
|   | 10.2  | 04/06/88             | 20,000.000             | 20,000.000         |                    |
|   | 10.3  | 06/07/89             | 50,000.000             | 9,664.371          |                    |
| Fontana Water Company                     | 28    | 08/05/92             | 5,000.000              | 0.014              | 0.014              |
| Jurupa Community Services District        | 30    | 07/06/94             | 20,000.000             | 8,636.749          | 8,636.749          |
| Marygold Mutual Water Company             | 16.3  | 07/07/93             | 2,000.000              | 1,853.069          | 1,853.069          |
| Monte Vista Irrigation Company            | 17    | 05/07/89             | 500.000                | 500.000            | 5,444.148          |
|   | 17.1  | 06/06/90             | 2,500.000              | 4,944.148          |                    |
| Monte Vista Water District                | 27    | 08/05/92             | 2,500.000              | 2,500.000          | 5,336.477          |
|   | 27.1  | 08/14/97             | 34,023.843             | 2,836.477          |                    |
| Norco, City of                            | 31.0  | 11/02/94             | 2,000.000              | 0.000              | 0.000              |
| Ontario, City of                          | 11    | 06/07/89             | 10,000.000             | 10,000.000         | 10,000.000         |
|   | 11.1  | 07/06/94             | 20,000.000             | 0.000              |                    |
| Pomona, City of                           | 15.1  | 04/06/88             | 13,000.000             | 0.000              | 29,616.045         |
|   | 15.2  | 06/06/90             | 10,000.000             | 10,000.000         |                    |
|   | 15.3  | 08/05/92             | 10,000.000             | 10,000.000         |                    |
|   | 15.4  | 07/07/93             | 10,000.000             | 9,616.045          |                    |
| San Antonio Water Company                 | 3     | 08/15/80             | 2,500.000              | 2,175.000          | 19,369.371         |
|   | 3.1   | 11/05/86             | 2,500.000              | 2,500.000          |                    |
|   | 3.2   | 04/06/88             | 10,000.000             | 14,694.371         |                    |
| Santa Ana River Water Company             | 20    | 05/06/87             | 1,500.000              | 271.977            | 271.977            |
| Southern California Water Company         | 23    | 12/07/88             | 500.000                | 1,294.613          | 1,294.613          |
| Upland, City of                           | 24    | 04/05/89             | 1,000.000              | 0                  | 9,600.221          |
|   | 24.1  | 06/06/90             | 8,000.000              | 9,600.221          |                    |
| West End Consolidated Water Company       | 13.2  | 08/05/92             | 6,000.000              | 6,964.961          | 6,964.961          |
| West San Bernardino County Water District | 25    | 01/10/91             | 3,000.000              | 1,683.442          | 1,683.442          |
| Watermaster                               | 29    | 08/05/92             | 10,000.000             | 29,620.946         | 29,620.946         |
| <b>Total Appropriative Pool</b>           |       |                      | <b>296,523.843</b>     | <b>190,526.350</b> | <b>190,526.350</b> |

OVERLYING (NON-AGRICULTURAL) POOL

|  |      |          |                    |                    |                    |
|--|------|----------|--------------------|--------------------|--------------------|
| Ameron   | 6    | 03/30/83 | 100.000            | 100.000            | 1,177.016          |
|  | 6.1  | 04/06/88 | 500.000            | 500.000            |                    |
|  | 6.2  | 08/05/92 | 500.000            | 577.016            |                    |
| Calmat   | 1    | 06/30/79 | 1,589.220          | 1,589.220          | 6,344.510          |
|  | 1.1  | 05/30/84 | 1,589.220          | 1,589.220          |                    |
|  | 1.2  | 02/07/90 | 1,589.220          | 3,166.070          |                    |
| Kaiser Ventures Inc.                           | 9.1  | 10/07/87 | 15,000.000         | 9,236.496          | 9,236.496          |
| Praxair  | 8.2  | 04/06/88 | 3,000.000          | 2,306.440          | 2,306.440          |
| SCE  | 14.1 | 04/06/88 | 5,000.000          | 3,616.345          | 3,616.345          |
| Space Center Mira Loma                         | 4    | 03/31/82 | 100.000            | 100.000            | 449.868            |
|  | 4.1  | 11/05/86 | 200.000            | 349.868            |                    |
| Sunkist Growers Inc.                           | 7    | 03/31/83 | 2,500.000          | 2,500.000          | 6,401.184          |
|  | 7.1  | 11/05/86 | 5,000.000          | 3,901.184          |                    |
| Swan Lake                                      | 21   | 05/06/87 | 300.000            | 300.000            | 1,539.044          |
|  | 21.1 | 05/06/91 | 500.000            | 1,239.044          |                    |
| <b>Total Overlying (Non-Agricultural) Pool</b> |      |          | <b>37,467.660</b>  | <b>31,070.903</b>  | <b>31,070.903</b>  |
| <b>*Total</b>                                  |      |          | <b>333,991.503</b> | <b>221,597.253</b> | <b>221,597.253</b> |

\*Total Agreements now reflects the actual amount of storage agreements entered into where storage occurred. The agreements that expired during the last 5 years which were never utilized have been removed from the list.

**APPENDIX I-1**

**LOCAL WATER IN STORAGE  
RECAPTURES, SALES AND TRANSFERS  
FISCAL YEAR 1997-98**

**(ACRE-FEET)**

| <b>FROM</b>               | TO             | USE* | TRANSFERS | SALES      | <u>RECAPTURES</u> |
|---------------------------|----------------|------|-----------|------------|-------------------|
| Cucamonga CWD             | Fontana WC     | 2    |           | 9,773.690  |                   |
| Cucamonga CWD             | CBWM           | 3    |           | 3,572.000  |                   |
| Cucamonga CWD             | SCE            | 1    |           | 1,800.000  |                   |
| Marygold MWC              | Fontana WC     | 2    |           | 1,200.000  |                   |
| City of Pomona            | City of Pomona | 2    |           |            | 576.377           |
| San Antonio Water Company | JCSD           | 2    |           | 325.000    |                   |
| So Cal Water Company      | CBWM           | 3    |           | 750.000    |                   |
| City of Upland            | CBWM           | 3    |           | 1,446.848  |                   |
|                           |                |      |           | 18,867.538 | 576.377           |

**Total: 19,443.915**

Use\*

- (1) placed in storage
- (2) offset production
- (3) satisfy replenishment

**APPENDIX I-2**

**TRANSFERS/LEASES  
FISCAL YEAR 1997-98**

**(ACRE-FEET)**

| <b>FROM</b>        | <b>TO</b>       | <b>TYPE</b> | <b>USE*</b> | <b>AMOUNT</b> | <b>TOTAL</b> |
|--------------------|-----------------|-------------|-------------|---------------|--------------|
| Cucamonga CWD      | Jurupa CSD      | L           | 4           | 1,575.000     | 1,575.000    |
| Fontana Union WC   | Cucamonga CWD   | L           | 3           | 10,065.564    | 10,065.564   |
| Monte Vista IC     | City of Ontario | L           | 4           | 500.000       | 500.000      |
| City of Pomona     | City of Ontario | L           | 4           | 5,858.705     | 5,858.705    |
| City of Pomona     | City of Ontario | L           | 4           | 4,800.000     | 4,800.000    |
| City of Pomona     | Jurupa CSD      | L           | 4           | 2,000.000     | 2,000.000    |
| San Antonio WC     | City of Ontario | L           | 5           | 2,500.000     | 2,500.000    |
| Santa Ana River WC | Jurupa CSD      | L           | 5           | 1,500.000     | 1,500.000    |
| West SB Cnty WD    | Ontario         | L           | 4           | 1,500.000     | 1,500.000    |

**Total Transfers/Leases      30,299.269**

\* Use

- (1) replenishment
- (2) MWD Cyclic
- (3) operating yield
- (4) offset production

**APPENDIX I-3**  
**ASSIGNMENTS**  
**FISCAL YEAR 1997-98**  
**(ACRE-FEET)**

| FROM                  | TO                          | USE* | AMOUNT    | TOTAL     |
|-----------------------|-----------------------------|------|-----------|-----------|
| City of Chino         | County of SB Airport Dept   | 2    | 133.870   | 133.870   |
|                       |                             |      |           |           |
| Fontana Water Company | Praxair Inc.                | 2    | 174.090   | 174.090   |
|                       | California Steel Industries | 2    | 1,300.000 | 1,300.000 |
|                       |                             |      |           |           |
| Jurupa CSD            | Swan Lake (by MCM Co)       | 2    | 228.355   | 228.355   |
|                       | City of Norco               | 2    | 206.907   | 206.907   |
|                       | Santa Ana River Water Co    | 2    | 490.792   | 490.792   |
|                       | Space Center Mira Loma      | 2    | 33.200    | 33.200    |
|                       |                             |      |           |           |
| City of Ontario       | Sunkist Growers, Inc.       | 2    | 588.160   | 588.160   |

**Total Agency Agreements for Provision of Water Service      3,155.374**

\*Use

(1) Annual assignment of production for receipt of same amount of water.

**APPENDIX J**  
**NEW PARTY INTERVENTIONS**  
**APPROVED IN**  
**FISCAL YEAR 1997-98**

**Overlying (Non-Agricultural) Pool**

Mountain Vista Power Generation Company L.L.C.

**Overlying (Agricultural) Pool**

Louis Badders

Paul Russavage

**Appropriative Pool**

These Petitions were approved through the Watermaster process during FY97-98.

APPENDIX K

**WATERMASTER'S "NOTICE OF INTENT"  
TO CHANGE THE OPERATING SAFE YIELD  
OF THE CHINO GROUNDWATER BASIN**

PLEASE TAKE NOTICE that on this 30th day of June 1998, Chino Basin Watermaster hereby files this 'NOTICE OF INTENT' to change the operating safe yield of the Chino Groundwater Basin pursuant to the Judgment entered in Chino Basin Municipal Water District v. City of Chino, et al., San Bernardino Superior Court, Case No. RCV 51010 (formerly Case No. 164327) (Exhibit I, Paragraph 2b, Page 80).

Approved by the  
Watermaster Advisory Committee

CHINO BASIN WATERMASTER

By: *Gene Keppman*  
Chairman

By: *Robert Neufeld*  
Robert Neufeld, President

ATTEST:

By: *Josephine Johnson*  
Josephine Johnson, Secretary

APPENDIX L

SIXTH AMENDMENT TO THE  
CHINO BASIN CYCLIC STORAGE AGREEMENT

This Amendatory Agreement (hereinafter "Amendment") is made as of \_\_\_\_\_ 1998, by and between the Metropolitan Water District of Southern California (hereinafter "Metropolitan"), the Inland Empire Utilities Agency, a municipal water district (hereinafter "Inland") and the Chino Basin Watermaster (hereinafter "Watermaster"). Chino Basin Municipal Water District was renamed Inland Empire Utilities Agency, a municipal water district, as of July 1, 1998, and is referred to as "Inland" in this Amendment.

RECITALS

WHEREAS, the parties to this Amendment entered into an agreement titled Chino Basin Cyclic Storage Agreement, (hereinafter, "Agreement), dated December 4, 1978, for the purpose of giving Metropolitan the right to store up to 100,000 acre-feet of State Project water in the Chino Basin;

WHEREAS, the Agreement has been extended by previous amendments to December 31, 1997;

WHEREAS, water stored under the Agreement is used to meet Inland's groundwater replenishment demands pursuant to specific criteria set forth in Article 6 of the Agreement;

WHEREAS, under its terms, the Agreement allows Metropolitan to deliver State Project water to the Chino Basin for spreading and percolation into the Chino Basin, and such quantities of water, less losses, are to be credited by the Watermaster to Metropolitan's Cyclic Storage Account;

WHEREAS, the parties to the Agreement are reviewing a number of policies and procedures that may affect the terms of storage and delivery of water under future amendments to the Agreement;

WHEREAS, the parties to the agreement desire to extend the term of the Agreement one year in order to continue the benefits that the Agreement provides while the aforementioned review is taking place;

NOW, THEREFORE, the parties hereby enter into this Amendment to the Agreement as follows:

COVENANTS

1. Article 9 (a) of the Agreement is hereby amended by extending the term of the Agreement to December 31, 1998.

2. This Amendment shall be effective as of January 1, 1998, and Watermaster shall petition the Court for ratification of such approval as a portion of its next Watermaster Annual Report.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be duly executed by its authorized officers.

ATTEST:

THE INLAND EMPIRE UTILITIES AGENCY

\_\_\_\_\_  
Secretary

By: \_\_\_\_\_

APPROVED AS TO FORM:

\_\_\_\_\_  
Attorney for Inland Empire Utilities  
Agency

ATTEST:

THE METROPOLITAN WATER  
DISTRICT OF SOUTHERN CALIFORNIA

\_\_\_\_\_  
Executive Secretary

By: \_\_\_\_\_  
Deputy General Manager

APPROVED AS TO FORM:

Gregory Taylor  
General Counsel

\_\_\_\_\_  
General Counsel

(SEAL)

ATTEST:

THE CHINO BASIN WATERMASTER

\_\_\_\_\_  
Secretary

By: \_\_\_\_\_

APPROVED AS TO FORM  
AND EXECUTION:

\_\_\_\_\_  
Attorney for Watermaster

(SEAL)

COMPREHENSIVE  
ANNUAL FINANCIAL REPORT  
FOR THE  
FISCAL YEAR ENDED  
JUNE 30, 1998

**(ON FILE AT WATERMASTER OFFICE)**