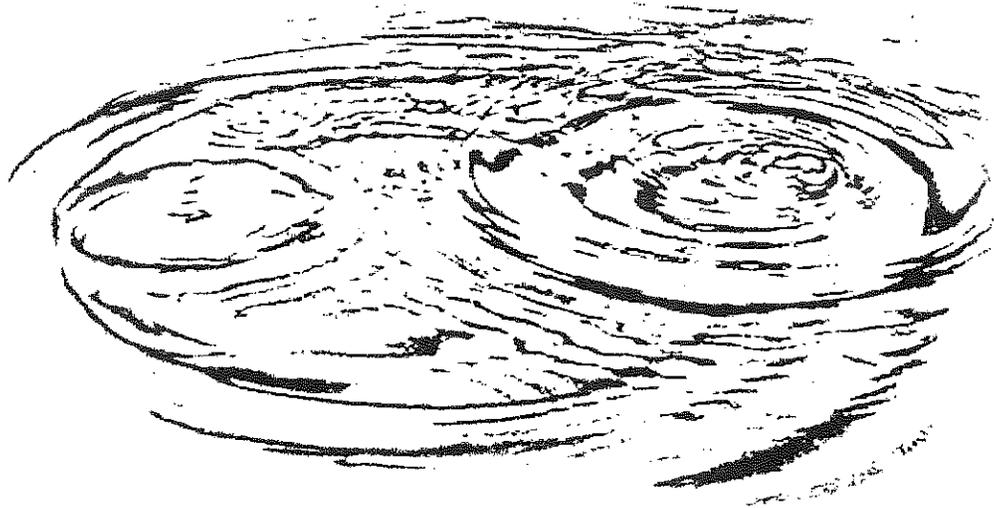


Valley County Water District

**2005**

**Urban Water Management Plan**



Prepared by:  
Stetson Engineers Inc.

861 Village Oaks Drive, Covina, California 91724  
Phone: (626) 967-6202, Fax: (626) 331-7065  
Covina, CA San Rafael, CA Mesa, AZ



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## CHAPTER 1

### INTRODUCTION

*Section 10617*

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

#### 1.1 URBAN WATER MANAGEMENT PLAN

This Urban Water Management Plan (hereinafter Plan or UWMP) is an update to Valley County Water District's (hereinafter VCWD) most recent Plan, dated December 2000, which was prepared according to the UWMP Act<sup>1</sup>. The UWMP Act, California Water Code Division 6, Part 2.6, became effective on January 1, 1985 and a copy of the Act is located in Appendix A.

The UWMP Act requires every "urban water supplier" to prepare and adopt an Urban Water Management Plan (at least once every five years on or before December 31, in years ending in five and zero) and to make any amendments or changes which are indicated by the review. The UWMP Act defines an "urban water supplier" to be "a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually." According to this definition in the UWMP Act, VCWD is required to submit a Plan for 2005.

VCWD has complied with the UWMP Act requirements since its establishment in 1985. VCWD filed its first Plan in 1985 and updated that Plan in 1990. VCWD has updated its Plan once every five years (including in 1995 and 2000). This 2005 Plan supersedes the Plan filed with the Department of Water Resources (DWR) in 2000 and examines the activities of VCWD as a retail water supplier. In addition, this Plan describes the management of the Main San Gabriel Basin (Main Basin) in which VCWD



produces its groundwater supplies. VCWD is a member-agency of Upper San Gabriel Valley Municipal Water District (USGVMWD), who in turn is a member of the Metropolitan Water District of Southern California (MWD).

## 1.2 AGENCY COORDINATION [Section 10620 (a) – (e)]

### *Section 10620*

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

*(b) Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.*

*(c) An urban water supplier indirectly providing water shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, or to their customers, without the consent of those suppliers or public agencies.*

*(d) (1) An urban water supplier may satisfy the requirements of this part by participation in area wide, regional, watershed, or basin wide urban water management planning where those plans will reduce preparation costs and contribute to the achievement of conservation and efficient water use.*

*(2) Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.*

*(e) The urban water supplier may prepare the plan with its own staff, by contract, or in cooperation with other governmental agencies.*

As part of VCWD's coordination for the preparation of its 2005 UWMP, VCWD sent a notification letter out to the Cities within its service area including the Cities of Baldwin Park, Irwindale, Azusa, and West Covina inviting their participation in the development of its 2005 Plan. In addition, VCWD notified its wholesale agency, USGVMWD of the development of its Plan. Copies of the notification letters sent by VCWD are located in Appendix B.

VCWD actively encouraged community participation in its urban water management planning effort. The draft 2005 Plan was made available for public review from May 1, 2006 through May 16, 2006 and a public hearing was held on May 16, 2006. Upon completion of the public hearing, VCWD's Board of Directors adopted the draft Plan, including modifications resulting from the public hearing, as its 2005 UWMP and filed a copy of the Plan with the State of California, Department of Water



Resources; the California State Library; and with the cities within its service area. A copy of the adopted resolution is included as Appendix C.

### 1.3 WATER MANAGEMENT TOOLS [Section 10620 (f)]

*Section 10620*

*(f) An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.*

This plan describes the management tools and options used by VCWD to minimize the need to import water from other regions. The following provides a brief description of the management tools and options used by VCWD to maximize its local water resources.

- VCWD utilizes groundwater from the Main Basin as its main source of supply. The Main Basin is managed by the Main San Gabriel Basin Judgment and the Long Beach Judgment, which is discussed in detail in Chapter 3.
- VCWD implements Demand Management Measures to reduce water demand whenever possible, which is discussed in Chapter 5.
- VCWD is involved with water supply projects to optimize the use of its surface water supply, as discussed in Chapter 6.
- VCWD has looked at the option of recycled water as a source of supply to minimize imported water use, as discussed in Chapter 8.

VCWD's water supply comes from two main sources: (1) groundwater from wells in the Main Basin, and (2) water from Covina Irrigating Company (CIC). In addition, VCWD can purchase treated imported water from MWD, if needed. Through groundwater management, conservation programs, well maintenance, capital improvement programs, and recycled water use, VCWD has been able to minimize its reliance on imported water.



#### 1.4 CHANGES TO THE PLAN [Section 10621 (a) – (c)]

*Section 10621*

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

There are new amendments added to the Plan and some reorganization of the water code sections since the last update in 2000. The additions and changes are as follows:

- 1. Senate Bill 610, Land and Water Use Planning Bill
- 2. Assembly Bill 901, Water Quality Information
- 3. Senate Bill 672, Minimize Need to Import Water
- 4. Senate Bill 1348, Consider Demand Management Measures Implementation When Evaluating Eligibility
- 5. Senate Bill 1384, Wholesale Agency Water Supply Information
- 6. Senate Bill 1518, Recycled Water
- 7. Assembly Bill 105, Deposit Urban Water Management Plans in State Library
- 8. Senate Bill 318, Desalination

VCWD has reviewed its UWMP and included the appropriate amendments and changes.



## CHAPTER 2

### DESCRIPTION OF SERVICE AREA

#### *Section 10631*

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

*(a) Describe the service area of the supplier, including current and projected population, climate, and other demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.*

#### **2.1 BACKGROUND**

VCWD is a local water purveyor that serves retail customers within its service area. VCWD has the legal right to pump groundwater from the Main Basin. In addition, VCWD receives water from CIC and may purchase treated surface water from MWD to serve its customers.

VCWD has twelve production wells (Table 1) located within the Main Basin, however, many of VCWD's wells are inactive due to groundwater contamination. VCWD's wells are located within the Baldwin Park Operable Unit (BPOU) established by the United States Environmental Protection Agency (EPA). The BPOU is a seven-mile area of groundwater contamination in the San Gabriel Valley. Volatile Organic Chemicals (VOCs) have been detected at all of VCWD's wells at concentrations above the Maximum Contaminant Levels (MCLs). In addition, Perchlorate, N-nitrosodimethylamine (NDMA) and 1,4-Dioxane was detected above the drinking water standards at VCWD's Lante Well.

In the early 1990's VCWD constructed a Liquid Phase Granular Activated Carbon (LPGAC) treatment facility at its Maine Street Plant to remove VOCs from the Maine Street East and West Wells. During 2003-04 fiscal year, VCWD installed LPGAC vessels at its Clinton O. Nixon Plant to remove VOCs detected



at Clinton O. Nixon East and West Wells. VCWD has also constructed a 7,800 gallon per minute (gpm) treatment facility at its Lante Plant to treat water from its Lante Well, SA1-1 Well and SA1-2 Well. The Lante Plant treatment facility uses air strippers to remove VOCs, ion exchange to remove Perchlorate and low energy ultraviolet oxidation (LEUV) technology to destroy NDMA. The addition of Hydrogen Peroxide to the LEUV treatment unit destroys 1,4-Dioxane. The Lante Plant treatment facility started operation in 2005.

Currently VCWD produces water from the following seven active wells: Lante Well, Maine Street East Well, Maine Street West Well, Clinton O. Nixon East Well, Clinton O. Nixon West Well, SA1-1 Well and SA1-2 Well. The total combined well capacity of VCWD's active wells is 16,935 gallons per minute (gpm) or 25,975 acre-feet, as shown on Table 1. All of VCWD's active wells are located south of the Santa Fe Dam and adjacent to the Arrow Highway, as shown on Plate 1.

## 2.2 DESCRIPTION OF SERVICE AREA [Section 10631 (a)]

VCWD was formed in 1925 and incorporated in January 1926 under the name of Baldwin Park County Water District. On January 1, 1978, Baldwin Park County Water District's name was officially changed to VCWD. VCWD's service area encompasses an area of approximately 9.4 square miles and incorporates portions of the Cities Baldwin Park, Irwindale, West Covina and Azusa. VCWD is located approximately fifteen miles east of Downtown Los Angeles in the easterly portion of the San Gabriel Valley. The location of VCWD within the San Gabriel Valley is shown on Plate 2.

The San Gabriel Valley is bounded on the north by the San Gabriel Mountains, on the west by the San Rafael and Merced Hills, on the south by the Puente Hills and the San Jose Hills, and on the east by a low divide between the San Gabriel River System and the Upper Santa Ana River System, as shown on Plate 2.



**2.3 CLIMATE [Section 10631 (a)]**

VCWD's service area has an average temperature that ranges from 54 degrees Fahrenheit (°F) in January to 76°F in August, as shown on Table 2. The annual average rainfall within VCWD's service area is represented by the annual rainfall within the San Gabriel Valley due to the location of VCWD's service area within San Gabriel Valley. The 46-year average annual rainfall within the San Gabriel Valley is about 17.6 inches as shown on Table 3.

**2.4 CURRENT/PROJECTED POPULATION AND DEMOGRAPHIC FACTORS [Section 10631 (a)]**

VCWD currently serves approximately 74,230 people within the Cities of Baldwin Park, Irwindale, West Covina and Azusa. VCWD services approximately 90 percent of the City of Baldwin Park, which is mostly residential and commercial and approximately 90 percent of the City of Irwindale, which is mostly industrial or vacant land. In addition, VCWD serves a small portion of the Cities of West Covina (less than 2 percent) and Azusa (less than 1 percent), which is mostly residential and commercial.

Based on information in VCWD's most recent Water System Master Plan, dated May 1999, its services area is projected to be built-out by 2015. Any population increase within VCWD's service area will occur mainly as a result of an increase in the number of multi-family dwellings that would replace existing single-family dwellings. The existing open lands, such as spreading grounds, rock quarries, and undeveloped land behind the Santa Fe Dam within VCWD's service area will probably not be developed and will not need a water supply from VCWD.

The current population within VCWD's service area is 74,230. In 2010, it is projected the population within VCWD's service area will be about 77,014. Therefore from 2005 to 2010, there will be an increase in VCWD's service area population of about 2,700 people or 3.75 percent. This represents an annual



increase in VCWD's service area population of about .75 percent per year, which is the projected annual rate of increase in VCWD's population for the next 20 years from 2005 to 2025. The following tabulation represents the projected increase in population for VCWD for the next 20 years. The source of the population data is the Census Bureau.

<u>YEAR</u>	<u>POPULATION</u>	<u>PERCENT INCREASE</u>
2005	74,230	--
2010	77,014	3.75
2015	79,902	3.75
2020	82,898	3.75
2025	86,007	3.75



## CHAPTER 3

### SOURCES OF SUPPLY

#### 3.1 EXISTING AND PLANNED SOURCES OF WATER SUPPLY [Section 10631 (b)]

*Section 10631*

*b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a).*

VCWD, a retail water company, is a member-agency of USGVMWD. VCWD has two main sources of water supply, groundwater, and water from an adjacent water purveyor, CIC. In addition, VCWD may purchase imported water from MWD, if needed.

VCWD's groundwater supply is produced from its Main Basin wells located within its service area. Although there is no limit on the quantity of water that may be extracted by parties to the Main Basin adjudication, including VCWD, groundwater production in excess of water rights, or the proportional share (pumper's share) of the Operating Safe Yield, requires purchase of imported replacement water to recharge the Main Basin. VCWD has a prescriptive pumping right of 5,775.00 acre-feet and a pumper's share of 2.92206 percent of the Operating Safe Yield. If VCWD pumps more than the allowed amount of water, replacement water must be purchased from USGVMWD.

As shown on Table 4, VCWD utilizes its groundwater supply as the main source of its water supply. Historically, VCWD's groundwater production ranges from about 3,019 acre-feet per year (AFY) to 10,970 AFY. On an average, VCWD produces about 8,403 AFY of groundwater. As described in Chapter 2, during the 2003-04 fiscal year, VOCs were detected at its Clinton O. Nixon Plant, therefore VCWD's groundwater production during 2003-04 was significantly less than its average yearly water



production. However, VCWD installed a LPGAC treatment facility at its Clinton O. Nixon Plant to address the VOCs.

As a stockholder in CIC, VCWD receives an entitlement of about 1.11 percent of CIC's prescriptive pumping right in the Main Basin. CIC is a wholesale water purveyor that has both diversion rights to surface water in the San Gabriel River and pumping rights from the Main Basin. CIC has a prescriptive pumping right of 4,140 acre-feet and a pumper's share of 2.09478 percent of the Operating Safe Yield in the Main Basin. VCWD purchased stocks in CIC as a means of establishing an additional source of supply. Historically, VCWD water supply from CIC ranges from about 0 AFY to about 1,280 AFY. In fiscal year 1994-95 and 2001-02, VCWD did not receive water from CIC because VCWD did not need the water.

In addition, VCWD may purchase treated imported water from MWD through USG-9. However, this source is reserved for emergency use only. The source of water from the MWD USG-9 connection is the MWD Weymouth Treatment Plant, which treats a blend of State Water Project and Colorado River Water. As shown on Table 4, VCWD purchased water from MWD from fiscal year 1985-86 through fiscal year 1991-92. From fiscal year 1992-93 through fiscal year 2001-02, VCWD did not need to purchase water from MWD. However, due to water quality issues at its Wells, VCWD had to purchase water from MWD in fiscal year 2002-03 through fiscal year 2004-05. In fiscal year 2003-04, VCWD experienced groundwater contamination at its Clinton O. Nixon Plant, therefore VCWD's purchase from MWD was significantly larger than the 20-year average of 724 AFY. During fiscal year 2003-04, VCWD's production was low and VCWD purchased the majority of its water supply from MWD. Historically, the amount of water VCWD has needed to purchase from MWD ranged from 0 AFY to 8,116 AFY.

In fiscal year 2004-05, VCWD produced about 8,756 acre-feet of groundwater, purchased about 94 acre-feet from MWD and received about 1,102 acre-feet of water from CIC. VCWD's total annual water supply in fiscal year 2004-05 was approximately 9,952 acre-feet.



The projected amount of water supply for VCWD for the next 20 years is estimated to increase with the population. Table 5 summarizes the projected water supply from groundwater production, CIC and MWD from fiscal year 2009-10 through 2024-25.

### 3.2 GROUNDWATER MANAGEMENT [Section 10631 (1)-(2)]

*Section 10631*

*If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:*

- 1) A copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management.*
- 2) A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court of the board and a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition.*
- 3) A detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.*
- 4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.*

The management of the water resources in the Main Basin is based upon Watermaster Services under two Court Judgments: San Gabriel River Watermaster (River Watermaster)<sup>2</sup> and Main San Gabriel Basin Watermaster (Basin Watermaster)<sup>3</sup>. The VCWD participates in the Main Basin Management as described in the Basin Watermaster document entitled "Five-Year Water Quality and Supply Plan." The following sections describe the documents that manage the Main Basin.

<sup>2</sup> Board of Water Commissioners of the City of Long Beach, et al., v. San Gabriel Valley Water Company, et al., Los Angeles County Case No. 722647, Judgment entered September 24, 1965.

<sup>3</sup> Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al., Los Angeles County Case No. 924128, Judgment entered January 4, 1973.



### 3.2.1 LONG BEACH JUDGMENT

On May 12, 1959, the Board of Water Commissioners of the City of Long Beach, the Central Basin Municipal Water District (CBMWD), and the City of Compton, as plaintiffs, filed an action against the San Gabriel Valley Water Company and 24 other producers of groundwater from the San Gabriel Valley as defendants. This action sought a determination of the rights of the defendants in and to the waters of the San Gabriel River system and to restrain the defendants from an alleged interference with the rights of plaintiffs and persons represented by Central District in such waters. After six years of study and negotiation, a Stipulation for Judgment, was filed on February 10, 1965, and Judgment (Long Beach Judgment) was entered on September 24, 1965, as shown in Appendix D.

Under the terms of the Long Beach Judgment, the water supply of the San Gabriel River system was divided at Whittier Narrows, between San Gabriel Valley upstream and the coastal plain of Los Angeles County downstream. According to the Long Beach Judgment, the area downstream from Whittier Narrows (Lower Area), the plaintiffs and those they represent, are to receive a quantity of usable water annually from the San Gabriel River system comprised of usable surface flow, subsurface flow at Whittier Narrows and water exported to the Lower Area. This annual entitlement is guaranteed by the area upstream of Whittier Narrows (Upper Area), the defendants, and provision is made for the supply of Make-up Water by the Upper Area for years in which the guaranteed entitlement is not received by the Lower Area.

Make-up Water is imported water purchased by the Basin Watermaster and delivered to agencies within Central District to satisfy obligations under the Long Beach Judgment. The entitlement of the Lower Area varies annually, dependent upon the 10-year average annual rainfall in San Gabriel Valley for the 10 years ending with the year for which entitlement is calculated.

The detailed operations described in the Long Beach Judgment are complex and require continuous compilation of data so that annual determinations can be made to



assure compliance with the Long Beach Judgment. In order to do this, a three-member Watermaster was appointed by the Court, one representing the Upper Area parties nominated by and through USGVMWD, one representing the Lower Area parties nominated by and through the CBMWD, and one jointly nominated by USGVMWD and CBMWD. This 3-member board is known as the River Watermaster.

The River Watermaster meets periodically during the year to adopt a budget, to review activities affecting water supply in the San Gabriel River system area, to compile and review data, to make its determinations of usable water received by the Lower Area, and to prepare it in an annual report to the Court and to the parties. The River Watermaster has rendered annual reports for the water years 1963-64 through 2004-05 and operations of the river system under that Court Judgment and through the administration by the River Watermaster have been very satisfactory since its inception.

One major result of the Long Beach Judgment was to leave the Main Basin free to manage its water resources so long as it meets its downstream obligation to the Lower Area under the terms of the Long Beach Judgment.

### **3.2.2 MAIN BASIN JUDGMENT**

The Upper Area then turned to the task of developing a water resources management plan to optimize the conservation of the natural water supplies of the area. Studies were made of various methods of management of the basin as an adjudicated area and a report thereon was prepared for the Upper San Gabriel Valley Water Association, an association of water producers in the Main Basin. After due consideration by the Association membership, USGVMWD was requested to file as plaintiff, and did file, an action on January 2, 1968, seeking an adjudication of the water rights of the Main Basin and its Relevant Watershed. After several years of study (including verification of annual water production) and negotiations, a stipulation for entry of Judgment was approved by a majority of the parties, by both the number of



parties and the quantity of rights to be adjudicated. Trial was held in late 1972 and Judgment (Main Basin Judgment) was entered on January 4, 1973, as shown in Appendix E.

Under the terms of the Main Basin Judgment, all rights to the diversion of surface water and production of groundwater within the Main Basin and its Relevant Watershed were adjudicated. The Main Basin Judgment provides for the administration of the provisions of the Judgment by a nine-member Watermaster. Six of those members are nominated by water producers (producer members) and three members (public members) are nominated by USGVMWD and SGVMWD, which overlie most of the basin. The nine-member board employs a staff, an attorney and a consulting engineer. The Basin Watermaster holds public meetings on a regular monthly basis through the year. A copy of the Main San Gabriel Basin Watermaster's Rules and Regulations is located in Appendix F.

The Main Basin Judgment does not restrict the quantity of water, which parties may extract from the Main Basin. Rather, it provides a means for replacing all annual extractions in excess of a Party's annual right to extract water with Supplemental Water. The Basin Watermaster annually establishes an Operating Safe Yield for the Main Basin which is then used to allocate to each Party its portion of the Operating Safe Yield which can be produced free of a Replacement Water Assessment. If a producer extracts water in excess of his right under the annual Operating Safe Yield, he must pay an assessment for Replacement Water, which is sufficient to purchase one acre-foot of Supplemental Water to be spread in the basin for each acre-foot of excess production. All water production is metered and is reported quarterly to the Basin Watermaster.

In addition to Replacement Water Assessments, the Basin Watermaster levies an Administration Assessment to fund the administration of the Main Basin management program under the Court Judgment and a Make-up Obligation Assessment in order to fulfill the requirements for any make-up Obligation under the Long Beach Judgment and to supply fifty percent of the administration costs of the River



Watermaster service. The Basin Watermaster levies an In-lieu Assessment and may levy special Administration Assessments.

Water rights under the Main Basin Judgment are transferable by lease or purchase so long as such transfers meet the requirements of the Judgment. There is also provision for Cyclic Storage Agreements by which Parties and non-parties may store imported supplemental water in the Main Basin under such agreements with the Basin Watermaster pursuant to uniform rules and conditions and Court approval.

The Main Basin Judgment provides that the Basin Watermaster will not allow imported water to be spread in the main part of the Main Basin when the groundwater elevation at the Baldwin Park Key Well<sup>4</sup> (Key Well) exceeds 250 feet; and that the Basin Watermaster will, insofar as practicable, spread imported water in the Main Basin to maintain the groundwater elevation at the Key Well above 200 feet. One of the principal reasons for the limitation on spreading imported water when the Key Well elevation exceeds 250 feet is to reserve ample storage space in the Main Basin to capture native surface water runoff when it occurs and to optimize the conservation of such local water. Under the terms of the Long Beach Judgment, any excess surface flows that pass through the Main Basin at Whittier Narrows to the Lower Area (which is then conserved in the Lower Area through percolation to groundwater storage) is credited to the Upper Area as Usable Surface Flow.

### **3.2.3 OPERATIONS OF THE MAIN BASIN GROUNDWATER BASIN**

Through the Long Beach Judgment and the Main Basin Judgment, operations of the Main Basin are optimized to conserve local water to meet the needs of the parties of the Main Basin Judgment.

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<sup>4</sup> The Baldwin Key Well is a water-level monitoring well located in the City of Baldwin Park used to determine when imported water may or may not be spread in the Basin.



Imported water for groundwater replenishment is delivered through the flood control channels and diverted and spread at spreading grounds through Basin Watermaster's agreement with the Los Angeles County Department of Public Works (Public Works). Groundwater replenishment utilizes imported water and is considered Replacement Water under the terms of the Main Basin Judgment. It can be stored in the Basin through Cyclic Storage agreements, authorized by terms of the Main Basin Judgment, but such stored water may be used only to supply Supplemental Water to the Basin Watermaster.

The Basin Watermaster has entered into a Cyclic Storage Agreement with each of the three municipal water districts. The first is with MWD and USGVMWD, which permits MWD to deliver and store imported water in the Main Basin in an amount not to exceed 100,000 acre-feet for future Replacement Water use. The second Cyclic Storage Agreement is with Three Valleys Municipal Water District (TVMWD) and permits MWD to deliver and store 40,000 acre-feet for future Replacement Water use. The third is with SGVMWD and contains generally the same conditions as the agreement with MWD except that the stored quantity is not to exceed 40,000 acre-feet. In addition, VCWD has a cyclic storage account. VCWD agreement with the Main Basin Watermaster is to store a maximum of 4,000 acre-feet in its Cyclic Storage account at any given time.

Imported Make-up Water is often delivered to lined stream channels and conveyed to the Lower Area. Make-up Water is required to be delivered to the Lower Area by the Upper Area when the Lower Area entitlement under the Long Beach Judgment exceeds the usable water received by the Lower Area. Imported water is used to fulfill the Make-up Water Obligation when the amount of Make-up Water cannot be fulfilled by reimbursing the Lower Area interests for their purchase of recycled water. The amount of recycled water for which reimbursement may be made as a delivery of Make-up Water is limited by the terms of the Long Beach Judgment to the annual deficiency in Lower Area Entitlement water or to 14,735 acre-feet, whichever is the lesser quantity.



### 3.2.4 FIVE YEAR WATER QUALITY AND SUPPLY PLAN

The Main Basin Watermaster was created in 1973 to resolve water issues that had arisen among water users in the San Gabriel Valley. Basin Watermaster's mission was to generally manage the water supply of the Main San Gabriel Groundwater Basin. During the late 1970s and early 1980s, significant groundwater contamination was discovered in the Main Basin. The contamination was caused in part by past practices of local industries that had carelessly disposed of industrial solvents referred to as VOCs as well as by agricultural operations that infiltrated nitrates into the groundwater. Cleanup efforts were undertaken at the local, state, and federal level.

Local water agencies adopted a joint resolution in 1989 regarding water quality issues that stated Basin Watermaster should coordinate local activities aimed at preserving and restoring the quality of groundwater in the Main Basin. The joint resolution also called for a cleanup plan. In 1991, the Court granted Basin Watermaster the authority to control pumping for water quality purposes. Accordingly, Basin Watermaster added Section 28 to its Rules and Regulations regarding water quality management. The new responsibilities included development of a Five-Year Water Quality and Supply Plan, updating it annually, submitting it to the California Regional Water Quality Control Board, Los Angeles Region, and making it available for public review by November 1 of each year. A copy of the most recent Five-Year Water Quality and Supply Plan is located in Appendix G.

The Basin Watermaster prepares and annually updates the Five-Year Water Quality and Supply Plan in accordance with the requirements of Section 28 of its Rules and Regulations. The objective is to coordinate groundwater-related activities so that both water supply and water quality in the Main Basin are protected and improved. Many important issues are detailed in the Five-Year Plan, including how Basin Watermaster plans to:



1. Monitor groundwater supply and quality;
2. Develop projections of future groundwater supply and quality;
3. Review and cooperate on cleanup projects, and provide technical assistance to other agencies;
4. Assure that pumping does not lead to further degradation of water quality in the Basin;
5. Address Perchlorate, N-nitrosodimethylamine (NDMA), and other emerging contaminants in the Basin;
6. Develop a cleanup and water supply program consistent with the U.S. Environmental Protection Agency plans for its San Gabriel Basin Superfund sites; and
7. Coordinate and manage the design, permitting, construction, and performance evaluation of the Baldwin Park Operable Unit cleanup and water supply plan.

The Basin Watermaster has worked with state and federal regulators, along with local water companies to clean up water supplies. Section 28 of the Basin Watermaster's Rules and Regulations require all producers (including VCWD) to submit an application to 1) construct a new well, 2) modify an existing well, 3) destroy a well, or 4) construct a treatment facility. The Basin Watermaster prepares a report on the implications of the proposed activity. As a party to the Main Basin Judgment, VCWD reviews a copy of these reports and is provided the opportunity to submit comments on the proposed activity before the Basin Watermaster Board takes its final action.

Bulletin 118 **does not** identify the Main Basin as being in overdraft and the management structure of the Main Basin provides for an adequate supply for VCWD in the next 20 years.



### 3.3 DESCRIPTION OF GROUNDWATER BASIN

The San Gabriel Valley is located in southeastern Los Angeles County and is bounded on the north by the San Gabriel Mountains; on the west by the San Rafael and Merced Hills, on the south by the Puente Hills and the San Jose Hills, and on the east by a low divide between the San Gabriel River system and the Upper Santa Ana River system.

The San Gabriel River and its distributary, the Rio Hondo, drain an area of about 490 square miles upstream of Whittier Narrows. Whittier Narrows is a low gap between the Merced and Puente Hills, just northwest of the City of Whittier, through which the San Gabriel River and the Rio Hondo flow to the coastal plain of Los Angeles County. Whittier Narrows is a natural topographic divide and a subsurface restriction to the movement of groundwater between the Main San Gabriel Basin and the Coastal Plain. The 490 approximate square miles of drainage area upstream of Whittier Narrows is about 167 square miles of valley lands and about 323 square miles of mountains and foothills.

The Main Basin includes essentially the entire valley floor of San Gabriel Valley with the exception of the Raymond Basin and Puente Basin. The boundaries of the Main Basin are the Raymond Basin on the northwest, the base of the San Gabriel Mountains on the north, the groundwater divide between San Dimas and La Verne and the lower boundary of the Puente Basin on the east, and the common boundaries between USGVMWD and CBMWD through Whittier Narrows on the southwest. The common water supply of the Main Basin does not include the Raymond Basin, the area northerly of Raymond Hill Fault, which was adjudicated in the Pasadena v. Alhambra case (Superior Court of the County of Los Angeles, 1944). The Puente Basin, although tributary to the Main Basin, is not included in the Main Basin administered by the Basin Watermaster.

The Main Basin (administered by the Basin Watermaster) is a large groundwater basin replenished by stream runoff from the adjacent mountains and hills, by rainfall



directly on the surface of the valley floor, subsurface inflow from Raymond Basin and Puente Basin, and by return flow from water applied for overlying uses. Additionally, the Main Basin is replenished with imported water. The Main Basin serves as a natural storage reservoir, transmission system and filtering medium for wells constructed therein.

There are three municipal water districts overlying and partially overlying the Main Basin. The three districts are USGVMWD, SGVMWD and TVMWD. The boundaries of these water districts are shown on Plate 3.

Urbanization of the San Gabriel Valley began in the early part of the twentieth century, but until the 1940's, agricultural land use occupied more area than residential and commercial land use. After World War II, agricultural areas reduced rapidly and are now less than two thousand acres. The agricultural areas tend to be located in the easterly portion of the Main Basin and along power transmission rights of way adjacent to the San Gabriel River. Agricultural plots are discontinuous and relatively small. There are several major industrial areas adjacent to the San Gabriel River and within other portions of the valley. The greatest area of land use in the valley is for residential and commercial purposes.

### **3.3.1 GEOLOGY**

The Main Basin consists of a roughly bowl-shaped depression of bedrock, filled over millions of years with alluvial deposits. This bowl-shaped depression is relatively deep; the elevation of the base of the groundwater reservoir declines from about 800 feet above mean sea level (MSL) in the vicinity of San Dimas at the northeast corner of the Main Basin to about 2,200 feet below MSL in the vicinity of South El Monte. (California Department of Water Resources, 1966, Plate II.)

Most of the alluvium deposited within this depression is debris from the San Gabriel Mountains, washed and blown down from the side of the mountains over time. This process has also resulted in the materials of the Main Basin varying in size from



relatively coarse gravel nearer the mountains to fine and medium-grained sand containing silt and clay as the distance from the mountains increases. The principal water-bearing formations of the Main Basin are unconsolidated and semi-consolidated sediments, which vary in size from coarse gravel to fine-grained sands. The interstices between these alluvial particles throughout the Main Basin fill with water and transmit water readily to wells. The thickness of the water-bearing materials in the Main Basin ranges from 200 to 300 feet in the northeastern portion of the Main Basin near the mountains (Los Angeles County Department of Public Works, 1934, page 141.) to nearly 4,000 feet in the South El Monte area. (California Department of Water Resources, 1966, page 31.)

The soils overlying the Main Basin average about six feet in depth. Soil depths are generally greater at the perimeter of the valley and decrease toward the center along the San Gabriel River. These soils are residual, formed in place through chemical, mechanical and plant weathering processes. The infiltration rates of these soils are greater along the natural channels and their adjacent flood plains. Lower infiltration rates are found in the perimeter areas of the valley. Since the valley is mostly urbanized, a significant portion of the area has been paved and many miles of stream channel have been lined for flood control purposes, thus decreasing infiltration of water through streambeds. Detailed basin geology is discussed in the report entitled "Planned Utilization of Ground Water Basins, San Gabriel Valley, Appendix A: Geo-hydrology" (California Department of Water Resources, 1966).

### **3.3.2 HYDROLOGY**

The total fresh water storage capacity of the Main Basin is estimated to be about 9.5 million acre-feet. Of that, about 1,100,000 acre-feet have been used historically in Main Basin operations. The change in groundwater elevation at the Key Well is representative of changes in groundwater in the Main Basin. One foot of elevation change at the Key Well is roughly the equivalent of about 8,000 acre-feet of water storage. The location of the Key Well is shown on Plate 2 and hydrograph of the Key Well is shown on Figure 1. The historic high groundwater elevation was recorded at



over 329.1 feet in April 1916, at which time Main Basin storage was estimated to be about 8,700,000 acre-feet. The historic low was recorded in December 2004 at 195.5 feet, at which time Main Basic storage was estimated to be about 7,600,000 acre-feet. The Key Well hydrograph shown on Figure 1 illustrates the cyclic nature of basin recharge and depletion. The hydrograph also illustrates the dramatic recharge capability of the Main Basin during wet periods.

Generally, water movement in the Main Basin is from the San Gabriel Mountains on the north to Whittier Narrows to the southwest, as shown on Plate 4. Groundwater movement in the northern and northeastern regions of the Main Basin is affected by faulting. For example, the Raymond Fault located in the northwesterly portion of the Main Basin separates the Raymond Basin from the Main Basin.

The Main Basin is an unconfined aquifer. Although clay deposits appear mixed with the soils in several locations in the Main Basin and there are various clay lenses throughout the Main Basin, they do not coalesce to form a single impermeable barrier for the movement of subsurface water. The Main Basin therefore operates as a single, unconfined aquifer. As previously mentioned, a thorough discussion of basin hydrogeology is contained in the report "Planned Utilization of Ground Water Basins, San Gabriel Valley, Appendix A: Geo-hydrology" (California Department of Water Resources, 1966).

Within the Main Basin, there are a number of identified sub-basins. These include the Upper San Gabriel Canyon Basin, Lower San Gabriel Canyon Basin, Glendora Basin, Foothill Basin, Way Hill Basin and San Dimas Basin. In addition, the Puente Basin is tributary to the Main Basin from the southeast, between the San Jose and Puente Hills. Plate 2 shows the location of the sub-basins within the Main Basin.

### 3.3.3 GROUNDWATER RECHARGE

The major sources of recharge to the Main Basin are direct penetration of rainfall on the valley floor, percolation of runoff from the mountains, percolation of imported



water and return flow from applied water. Rainfall occurs predominantly in the winter months and is more intense at higher elevations and closer to the San Gabriel Mountains.

The magnitude of annual recharge from direct penetration of local rainfall and return flow from applied water is not easily quantifiable. Percolation of runoff from the mountains and valley floor along with percolation of imported water has only been estimated. Public Works maintains records on the amount of local and imported water conserved in water spreading facilities and stream channels.

The San Gabriel River bisects the Main Basin. The San Gabriel River originates at the confluence of its west and east forks in the San Gabriel Mountains. It flows through the San Gabriel Canyon and enters the Main Basin at the mouth of the canyon north of the City of Azusa. The San Gabriel River flows southwesterly across the valley to Whittier Narrows, a distance of about fifteen miles. It exits San Gabriel Valley at Whittier Narrows, and transverses the Coastal Plain in a southerly direction to reach the Pacific Ocean at Alamitos Bay near the City of Long Beach.

The San Gabriel River is joined and fed by tributary creeks and washes. In the Main Basin these include: Big Dalton Wash, which originates in the San Gabriel Mountains; Walnut Creek, which originates at the northeast end of the San Jose Hills; and San Jose Creek, which originates in the San Gabriel Mountains, but which travels around the southerly side of the San Jose Hills through the Puente Narrows before joining the San Gabriel River just above Whittier Narrows.

The channel of the San Gabriel River bifurcates in the upper middle portion of the Main Basin, forming a channel to the west of and parallel to the San Gabriel River, known as the Rio Hondo. Tributaries draining the westerly portion of the Main Basin, including Sawpit Wash, Santa Anita Wash, Eaton Canyon Wash, Rubio Wash and Alhambra Wash, all of which originate in the San Gabriel Mountains or the foothills, feed the Rio Hondo. The Santa Anita Wash, Eaton Canyon Wash, Rubio Wash and



Alhambra Wash all cross the Raymond Basin area before entering the Main Basin. The channel of the Rio Hondo passes through Whittier Narrows westerly of the San Gabriel River, and then flows southwesterly to join the Los Angeles River on the Coastal Plain.

To protect residents of the San Gabriel Valley from flooding that can result during periods of intensive rainfall, Public Works and the U.S. Army Corps of Engineers (Corps of Engineers), have constructed an extensive system of dams, debris basins, reservoirs and flood control channels. The dams and reservoirs also operate as water conservation facilities. The dams and reservoirs that control the flow of the San Gabriel River and the Rio Hondo include: Cogswell Reservoir on the west fork of the San Gabriel River, San Gabriel Reservoir at the confluence of the west and east forks of the San Gabriel River, Morris Reservoir near the mouth of the San Gabriel Canyon, Santa Fe Reservoir in the northerly portion of the Main Basin and Whittier Narrows Reservoir at the southwestern end of San Gabriel Valley.

Many of the stream channels that are tributaries to the San Gabriel River have been improved with concrete banks (walls) and concrete-lined bottoms. These stream channel improvements have significantly reduced the area of previous stream channels and reduce Main Basin recharge. A number of off-stream groundwater replenishment facilities have been established along these stream channels to offset such reductions in recharge. Some of these facilities are accessible to imported water supplies, while some facilities receive only local runoff.

The paths of the surface streams are mirrored in the soils and in the direction of groundwater movement in the Main Basin. The tributary creeks and washes, carrying smaller amounts of water, generally flow toward the center of the San Gabriel Valley, while the direction of flow of the major streams, the San Gabriel River and the Rio Hondo, is from the mountains in the north to Whittier Narrows in the southwest. In similar fashion, the primary direction of groundwater movement in the Main Basin is from the north to the southwest, with contributing movement generally from the east and west toward the center of the Main Basin as shown on Plate 4. The greatest infiltration



and transmissivity rates of soils in the Main Basin are from north to south, with the maximum rates found in the center of the valley along the stream channels. Generally, the Main Basin directs groundwater to the southwest through Whittier Narrows.

### 3.4 PAST AND CURRENT LOCATION, AMOUNT AND SUFFICIENCY GROUNDWATER [Section 10631 (3)]

*Section 10631*

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

VCWD produces groundwater from the Main Basin from its seven active wells, shown on Plate 1. VCWD's historic annual water production from the Main Basin from fiscal year 1985-86 through fiscal year 2004-05 is shown on Table 4.

As noted in Section 3.3, the Main Basin is managed by the Main Basin Watermaster. Section 42 of the Main Basin Judgment (Basin Operating Criteria) states in part "...Watermaster shall not spread Replacement Water when the water level at the Key Well exceeds Elevation two hundred fifty (250), and Watermaster shall spread Replacement Water, insofar as practicable, to maintain the water level at the Key Well above Elevation two hundred (200)." Figure 1 shows the historic fluctuation of the Key Well since the Main Basin was adjudicated in 1973 and demonstrates that the Main Basin was generally operated between elevation 250 feet and 200 feet above msl. Furthermore, at elevation 200 feet msl at the Key Well, the Main Basin has about 7,600,000 acre-feet of available storage. During the period of management under the Main Basin Judgment, significant drought events have occurred from 1969 to 1977, 1983 to 1991 and 1998 to 2004. In each drought cycle, the Main Basin maintained its water levels due to the management structure. **Therefore, based on historic management practices, VCWD will have adequate groundwater supply from the Main Basin over the next 20 years under single and multiple droughts.**



### 3.5 PROJECTED LOCATION, AMOUNT AND SUFFICIENCY OF GROUNDWATER [Section 10631 (4)]

*Section 10631*

4) *A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.*

VCWD expects approximately a 3.75 percent increase in population growth within its service area for each five-year increment for the next 20 years. Therefore, VCWD's water demands will increase at the same rate. As shown on Table 4, the maximum groundwater production within the last fourteen years was approximately 10,970 acre-feet during fiscal year 2001-02. As noted earlier, the Main Basin is managed to maintain adequate future supplies. The projected amount of groundwater to be pumped over the next 20 years is not expected to exceed approximately 11,400 acre-feet per year in order to meet VCWD customer demands (VCWD will also receive water from CIC). Table 5 shows the projected amount of water supply for VCWD for the next 20 years. In fiscal year 2024-25, it is projected that VCWD's water supply will be about 11,425 acre-feet, including 11,314 acre-feet from the Main Basin and about 111 acre-feet from CIC, as shown on Table 5.

### 3.6 RELIABILITY OF WATER SUPPLY TO CLIMATE [Section 10631 (c)]

*Section 10631*

c) *Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following:*

- 1) *An average water year.*
- 2) *A single dry water year.*
- 3) *Multiple dry water years.*

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

The reliability of the water supply for the VCWD is primarily dependent upon the management of Main Basin. VCWD pumps groundwater from its production wells in the Main Basin and receives water from CIC who in turn pumps from the Main Basin. In addition, VCWD may purchase treated imported water from MWD, if necessary.



The management of Main Basin is described in Section 3.2. The Main Basin was adjudicated in 1973 and is managed by the Main Basin Watermaster. The Main Basin provides a reliable supply in an average water year, a single-dry water year and during a multiple-dry water year. The reliability of VCWD's treated imported water supply is described in both USGVMWD's 2005 UWMP and MWD's 2005 Regional Urban Water Management Plan (RUWMP), which are both incorporated by reference.

Table 3 summarizes the rainfall within the San Gabriel Valley from 1958-59 through 2003-04. According to the rainfall data, the Main Basin experienced a single dry year in 1998-99 in which the total amount of rainfall was about 8.6 inches and a multiple dry year sequence from 1999-00 through 2001-02 in which the total amount of rainfall was about 14.4 inches, 15.5 inches, and 6.1 inches, respectively. Figure 1 also shows the rainfall levels in respect of the elevation of the Key Well. Table 6 (Historic Reliability of Supply) presents the historic water demand for an average year, single dry year and multiple dry years compared to VCWD's historic water supply. As shown on Table 6, a dry year or multiple dry years did not compromise VCWD's ability to provide a reliable water supply to its customers. Even during a multiple drought sequence, VCWD delivered water to its customers from its two main sources of supply, groundwater and water from CIC and did not need to purchase imported water from MWD.

### **3.7 EXCHANGES AND TRANSFERS [Section 10631 (d)]**

*Section 10631*

*d) Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.*

#### **3.7.1 LONG-TERM**

VCWD is a party to the Main Basin Judgment and has adjudicated water rights. The Main Basin Judgment does not restrict the quantity of groundwater that can be produced, but provides for a Replacement Water assessment for production in excess of water rights. The Main Basin Judgment also allows parties to enter into temporary



transfers (leases) of water rights to acquire additional water rights on an annual basis to reduce the quantity of production that may be subject to a Replacement Water assessment.

VCWD also has entered into a Cyclic Storage agreement with the Main Basin Watermaster to store imported water in the Main Basin for a period of up to five years to be used to offset a future Replacement Water requirement. VCWD is allowed to store a maximum of 4,000 acre-feet at any given time in its Cyclic Storage account with the Main Basin Watermaster. As of June 30, 2005, VCWD had 582.79 acre-feet in its Cyclic Storage account from USGVMWD. Because water is often in Cyclic Storage for many years before being required as Replacement Water, the Cyclic Storage program, although technically a conjunctive use operation, may be considered an exchange or transfer program in that it takes advantage of surplus water, when available, and stores it in the Main Basin for future use.

### 3.7.2 SHORT-TERM

VCWD has interconnections to obtain water in case of an emergency. If VCWD water supply is interrupted, it can receive emergency supplies from the City of Azusa or the San Gabriel Valley Water Company (SGVWC) in addition to MWD. The location, size and capacity of VCWD's emergency interconnections are listed below.

1. Interconnection with MWD – One 20-inch interconnection with a capacity of 13,000 gpm, designated as USG-9. The location of VCWD's interconnection with MWD, USG-9, is shown on Plate 1.
2. Interconnection with the City of Azusa – One 8-inch connection with a capacity of approximately 2,000 gpm located on the east side of Vincent Avenue, north of Arrow Highway.
3. Interconnection with SGVWC – One 8-inch connection with a capacity of approximately 1,500 gpm located on the south side of Ramona Boulevard, west of San Francisquito Avenue.



## CHAPTER 4

### PAST, CURRENT AND PROJECTED WATER USE

#### 4.1 PAST AND CURRENT WATER USE [Section 10631 (e)(1)]

*Section 10631*

(e) (1) Quantify, to the extent records are available, past and current water use, over the same five-year increments described in subdivision (a), and projected water use, identifying the uses among water use sectors including, but not necessarily limited to, all of the following uses:

- (A) Single-family residential
- (B) Multifamily
- (C) Commercial
- (D) Industrial
- (E) Institutional
- (F) Landscape
- (G) Sales to other agencies
- (H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof
- (I) Agricultural

VCWD is a retail water company that currently serves a population of about 74,230. The average historic water sale within VCWD's service area from fiscal year 1984-85 through 2004-05 was about 8,418 acre-feet per year. In fiscal year 2004-05, VCWD sold 8,876 acre-feet of water to its customers, as shown on Table 7.

VCWD's records are currently broken down by multi-family residential, single-family residential, commercial and industrial customers. From fiscal year 1988-89 through fiscal year 1992-93, VCWD had separate meters for its public (government) customers. The City's single-family residential sector and commercial sector make up the majority of the water users. The City's single-family sector uses about 53 percent of the City's water demand and the City's commercial sector uses about 28 percent of the City's water demand. The remainder of the City's water demand is broken down by the multi-family residential sector use of about 14 percent and the City's industrial sector use of about 5 percent.



The historic annual water use by customer type is shown on Table 7. The current consumption by the multi-family residential sector is about 1,253 acre-feet per year; the single-family residential sector use is about 4,685; the commercial sector use is about 2,514 acre-feet per year; and the industrial sector use is about 424 acre-feet per year. The current total water usage is approximately 8,876 acre-feet per year.

#### **4.2 PROJECTED WATER USE [Section 10631 (e)(2)]**

*Section 10631*

*(e) (2) The water use projections shall be in the same five-year increments described in subdivision (a).*

The projected water use for the VCWD for the next 20 years is expected to increase at the same rate as the projected increase in population of VCWD's service area. VCWD estimates it will be built-out by 2015 with little room for extensive industrial, commercial and/or residential development. Large-scale development would be confined to the replacement of existing structures. Accordingly, water use should not be measurably impacted. VCWD projects a 3.75 percent increase within its population for each five-year increment for the next 20 years. This is a rate of about .75 percent per year. The projected water use within the VCWD's service area by customer type is shown on Table 8. The projected water use for VCWD for the next 20 years will not exceed 10,400 acre-feet per year. In 2010, VCWD projects the annual water use within its service area will be about 9,224 acre-feet, as shown on Table 8. Besides, the water uses shown on Table 8, additional current or future water uses are not expected.



## CHAPTER 5

### CURRENT CONSERVATION MEASURES

Section 10631.

(f) Provide a description of the supplier's water demand management measures. This description shall include all of the following:

(1) A description of each water demand management measure that is currently being implemented, or scheduled for implementation, including the steps necessary to implement any proposed measures, including, but not limited to, all of the following:

- A) Water survey programs for single-family residential and multifamily residential customers
- B) Residential plumbing retrofit.
- C) System water audits, leak detection, and repair
- D) Metering with commodity rates for all new connections and retrofit of existing connections.
- E) Large landscape conservation programs and incentives.
- F) High-efficiency washing machine rebate programs
- G) Public information programs
- H) School education programs
- I) Conservation programs for commercial, industrial, and institutional accounts.
- J) Wholesale agency programs.
- K) Conservation pricing
- L) Water conservation coordinator.
- M) Water waste prohibition
- N) Residential ultra-low-flush toilet replacement programs.

(2) A schedule of implementation for all water demand management measures proposed or described in the plan.

(3) A description of the methods, if any, that the supplier will use to evaluate the effectiveness of water demand management measures implemented or described under the plan.

(4) An estimate, if available, of existing conservation savings on water use within the supplier's service area, and the effect of the savings on the supplier's ability to further reduce demand.

(g) An elevation of each water demand management measure listed in paragraph (1) of subdivision (f) that is not currently being implemented or scheduled for implementation.

In the course of the evaluation, first consideration shall be given to water demand management measures, or a combination or measures, that offer lower incremental costs than expanded or additional water supplies. This evaluation shall do all of the following:

- (1) Take into account economic and non-economic factors, including environmental, social, health, customer impact, and technological factors.
- (2) Include a cost-benefit analysis, identifying total benefits and total costs.
- (3) Include a description of funding available to implement any planned water supply project that would provide water at a higher unit cost.
- (4) Include a description of the water supplier's legal authority to implement the measure and efforts to work with other relevant agencies to ensure the implementation of the measure and to share the cost of implementation.

(h) Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water uses as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs, other than the demand management programs identified pursuant to paragraph (1) of subdivision (f), that the urban water supplier may implement to increase the amount of water supply



*available to the urban water supplier in average, single dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.*

## **5.1 WATER DEMAND MANAGEMENT MEASURES [Section 10631(f) (1)]**

VCWD is a retail water company that provides water to its customers through two main sources; groundwater pumping and from CIC. If needed, VCWD may purchase treated imported water from MWD. VCWD is committed to maximizing its local water resources and minimizing its need to import water. VCWD implements Demand Management Measures (DMMs) to promote water conservation and to encourage its customers to practice water-wise conservation methods.

VCWD is not a signatory to the Memorandum of Understanding regarding Urban Water Conservation in California (MOU) and is therefore not a member of the California Urban Water Conservation Council (CUWCC). However, VCWD is a member-agency of USGVMWD, who has been a member of the CUWCC since 1992. VCWD recognizes that water conservation and demand management measures are important for the reliability of its water sources and have made continued efforts to address and comply with all DMMs required by the UWMP Act. The following sections address the DMMs implemented directly by VCWD or in conjunction with its wholesale water agency, USGVMWD. VCWD directly or indirectly implements all DMMs.

### **5.1.1 WATER SURVEY PROGRAMS FOR SINGLE-FAMILY AND MULTI-FAMILY RESIDENTIAL CUSTOMERS [Section 10631(f)(1)(A), (2), (3), (4)]**

VCWD's water system is fully metered and is monitored through a computerized billing system that automatically audits customer's water usage. VCWD uses its computerized billing system to monitor water consumption data. The computerized billing system flags unusual variations in consumption, which alerts VCWD about leaks in its system or inoperable meters. If a problem exists within a customer's service



connection, a customer can make a request to have a service representative inspect the customer's system. If VCWD's service representative concludes the problem exists within its distribution system, VCWD will make the necessary repairs. If VCWD's service representative concludes the problem exists within the customer's service connection, VCWD will recommend the customer repair the connection. This program effectively helps eliminate leaks within both the customer's service connection and VCWD's distribution system. In addition, this program can help inform the customer of their water usage when their consumption is unusual or high.

**5.1.2 RESIDENTIAL PLUMBING RETROFIT**  
**[Section 10631(f)(1)(B), (2), (3), (4)]**

VCWD does not directly implement a residential plumbing retrofit program; however, as a member-agency of USGVMWD, VCWD participates in USGVMWD's residential plumbing retrofit program, which consists of a rebate offer for the installation of ultra-low-flush toilets and high-efficiency washing machines. USGVMWD implements its residential plumbing retrofit program in conjunction with MWD. More information regarding USGVMWD's residential plumbing retrofit programs is located in USGVMWD's 2005 UWMP, which is incorporated by reference.

**5.1.3 SYSTEM WATER AUDITS, LEAK DETECTION AND REPAIR**  
**[Section 10631(f)(1)(C), (2), (3), (4)]**

VCWD repairs leaks within its distribution system on an as-needed basis. VCWD monitors its water production and consumption use through its computerized billing system and is able to monitor and record unusual variations in its customer's consumption and through those records can deduce if there is a problem in its distribution system. If there is a leak or faulty meter within VCWD's distribution system, VCWD will make repairs as necessary.



In addition, VCWD meters its production wells located within the Main Basin. VCWD calculates the amount of unaccounted water loss or the difference between the quantity of water billed for consumption and the quantity of water produced from its wells. Historically the average unaccounted water loss for VCWD is about 5 percent. If this percent unexpectedly increases, VCWD will perform an audit on its distribution system.

**5.1.4 METERING WITH COMMODITY RATES FOR ALL NEW CONNECTIONS AND RETROFIT OF EXISTING CONNECTIONS**  
[Section 10631(f)(1)(D), (2), (3), (4)]

VCWD's water system is completely metered. VCWD has separate meters for each customer sector including multi-family residential, single-family residential, commercial and industrial. If a new development or redevelopment is constructed, each unit is individually metered. Within VCWD's metered distribution system, commodity rates exist for all new and existing connections. VCWD adopted Resolution No.6-03-552 to establish fixed water rates and charges for its water service. VCWD adopted Resolution No. 6-03-552 on August 1, 2003 as shown in Appendix H.

VCWD has a three-tiered rate structure based on the amount of water its customer uses. As shown on Appendix H, a billing unit is equivalent to one hundred cubic feet, which is commonly referred CCF. Those customers that use between 0 and 400 CCF pay less per billing unit than a customer that uses between 400 and 1800 CCF. In addition, a customer that uses between 400 and 1800 CCF pay less per billing unit than a customer that uses more then 1800 CCF. This program effectively promotes water conservation by providing financial incentives to its customers through the City's rate schedule.



### **5.1.5 LARGE LANDSCAPE CONSERVATION PROGRAMS AND INCENTIVES [Section 10631(f)(1)(E), (2), (3), (4)]**

VCWD's large landscape conservation program includes the retrofit of current landscape watering devices with water-efficient devices within its service area. For example, the City of Baldwin Park has installed drip irrigation systems, timers and moisture sensors in its recent developed parks to eliminate over-watering and water waste. In addition, VCWD advises its customers to conserve water by watering landscape areas at night to eliminate water loss due to evaporation.

As a member-agency of USGVMWD, VCWD's customers are offered classes in landscape water management. USGVMWD administers landscape classes that address 1) Irrigation Principles, 2) Irrigation System Troubleshooting, 3) Controller Programming and 4) Irrigation Scheduling. More information on the classes offered by USGVMWD is located in its 2005 UWMP, which is incorporated by reference.

### **5.1.6 HIGH-EFFICIENCY WASHING MACHINE REBATE PROGRAM [Section 10631(f)(1)(F), (2), (3), (4)]**

VCWD implements a high-efficiency washing machine rebate program through USGVMWD, who implements its program in partnership with MWD. USGVMWD offers a residential high-efficiency clothes washer rebate program to residential dwellings (single-family homes, condominiums, townhouses, apartments or mobile homes) that are located within USGVMWD's service area (including VCWD). Residents can install a high-efficiency washing machine in place of standard-efficiency washing machine for a rebate. High-efficiency washers can use up to 50 percent less water and 50 percent less energy compared to standard-efficiency washers. Residences that install a high-efficiency washing machine can receive up to a \$325 rebate for their water conservation measures. More information on the high-efficiency washing machine rebate program can be found in USGVMWD's 2005 UWMP, which is incorporated by reference.



**5.1.7 PUBLIC INFORMATION PROGRAMS**  
**[Section 10631(f)(1)(G), (2), (3), (4)]**

VCWD implements public information programs within its service area including the distribution of water literature, use of press releases, water conservation advertising programs, educational tours of its water facilities and participating in advisory committees. VCWD also sets up booths at local community events to educate the public on the need to conserve water and available water-wise practices.

In addition, as a member-agency of USGVMWD, VCWD's customers can receive public information about water conservation through USGVMWD's public information program. USGVMWD offers conservation brochures and posters, activity booklets, public outreach displays, oral presentations, and workshops to inform the public of conservation efforts. USGVMWD raises awareness about water conservation through press releases, news advertisements and media events. In addition, Upper District annually hosts a water awareness festival, Water Fest, to encourage water conservation. Additional information on USGVMWD's public information programs is located in its 2005 UWMP, which is incorporated by reference.

**5.1.8 SCHOOL EDUCATION PROGRAMS**  
**[Section 10631 (f)(1)(H),(2), (3), (4)]**

In the past VCWD implemented an extensive school education program, but currently VCWD's school education program includes only its booth at career day events held at local high schools within its service area. However, VCWD is currently working on expanded its school education program and anticipate the implementation of other school education programs within the 2006 year. The other programs VCWD will incorporate in its school education program include the availability of speakers to visit local schools and distribution of water awareness educational information.



In addition, as a member-agency of USGVMWD, VCWD participates in USGVMWD's school education programs. USGVMWD offers school education programs within its service area (including VCWD's service area) in an effort to raise awareness of water issues. USGVMWD implements school education programs that meet state education framework requirements and include a water awareness art contest, an annual poster contest, a t-shirt contest and a water resource library. Additional information about USGVMWD's school education programs is located in its 2005 UWMP, which is incorporated by reference.

**5.1.9 CONSERVATION PROGRAMS FOR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL ACCOUNTS [Section 10631(f)(1)(I), (2), (3), (4)]**

As a member-agency of USGVMWD, VCWD's customers can participate in USGVMWD's Commercial, Industrial and Institutional (CII) Program. USGVMWD's CII Program offers commercial, industrial and institutional facilities rebates for retrofitting existing high water-use fixtures with efficient water-use fixtures. USGVMWD's CII Program includes the installation and retrofit of ultra-low-flush toilets, ultra-low-flush urinals, flush valve kits, cooling tower conductivity controllers, coin-or card-operated high-efficiency clothes washers, automatic faucet shut-off valves, hospital x-ray processor recirculating systems, and water pressurized brooms. Additional information regarding USGVMWD's CII program can be found in its 2005 UWMP, which is incorporated by reference.

**5.1.10 WHOLESALE AGENCY PROGRAMS [Section 10631(f)(1)(J), (2), (3), (4)]**

VCWD is a retail water agency and therefore cannot implement wholesale agency programs. However, VCWD is a member-agency of USGVMWD, which has a number of wholesale agency programs. USGVMWD implements the following wholesale agency programs within its service area including VCWD's service area.



- System Water Audits, Leak Detection and Repair for its water distribution system
- Metering with Commodity Rates for all new connections and retrofit of existing connections, which is passed on to its member agencies
- Conservation pricing, which is passed on to its member agencies
- Water Conservation Coordinator who is responsible for all water conservation programs within its service area
- Water waste prohibitions to reduce water demands within its service area.

In addition, USGVMWD implements other conservation programs on the wholesale agency level that its retail water agencies can participate and benefit from. These programs include residential plumbing retrofit, large landscape conservation programs, High-efficiency washing machine rebate programs, public information programs, school education programs, conservation programs for commercial, industrial, and institutional accounts and a residential ultra-low-flush toilet replacement program. Information USGVMWD's wholesale agency conservation programs can be found in its 2005 UWMPs, which is incorporated by reference.

#### **5.1.11 CONSERVATION PRICING [Section 10631(f)(1)(K),(2), (3), (4)]**

As mentioned in Section 5.1.4, VCWD adopted Resolution No. 6-03-552 on August 1, 2003 to establish its water rates. VCWD rate schedule consists of a ready to serve charge and commodity rates. VCWD's ready to serve charge is based on the size of the customer's connection. A customer who has a one-inch meter connection, is charged a rate of \$10.56 per month compared to a customer who has a two-inch meter connection is charged a rate of \$26.40 per month. VCWD's commodity rate is a three-tiered rate structure based on the amount of water a customer uses. A customer who uses up to 400 CCF per month is charged a rate of \$.29 per 100 CCF. A customer who uses more than 400 CCF but less than 1800 CCF is charged a rate of \$.60 per 100 CCF. In addition, a customer who uses more than 1800 CCF is charged a rate of \$1.01



per 100 CCF. This program is an effective way to promote water conservation because the City's customers are rewarded based on their personal practices. Those customers that conserve water will save money.

**5.1.12 WATER CONSERVATION COORDINATOR**  
**[Section 10631(f)(1)(L), (2), (3), (4)]**

VCWD does not have a specific position designated Water Conservation Coordinator. However, the duties of a water conservation coordinator are shared by VCWD's customer service employees. VCWD's customer service employees share the responsibilities of coordinating public water awareness programs and participating in the distribution of the water efficient plumbing retrofits offered by USGVMWD. VCWD's customer service employees are effective at informing the public on water awareness. VCWD's customer service department works as a team informing the public at special events, on water awareness programs and with direct customer contact.

In addition, as a member-agency of USGVMWD, VCWD can benefit from USGVMWD's Water Conservation Coordinator. USGVMWD's Water Conservation Coordinator promotes water conservation issues and programs within USGVMWD's service area including customers of VCWD. Additional information about USGVMWD's Water Conservation Coordinator can be found in its 2005 UWMP, which is incorporated by reference.

**5.1.13 WATER WASTE PROHIBITION [Section 10631(f)(1)(M), (2), (3), (4)]**

On April 9, 1991 VCWD adopted Ordinance No. 4-91-120. Incorporated in Ordinance No. 4-91-120 are various water conservation regulations and restrictions. A list of VCWD's water waste prohibitions are located in Section 5 of Ordinance No. 4-91-120. A copy of this Ordinance is located in Appendix I. This program is effective in the conservation of water in that customers are ordered to conserve the amount of water used for landscaping, watering exterior areas, ornamental or recreational use, and



others. VCWD's water waste prohibitions even limits the customer to specific days and hours water can be used for such activities.

**5.1.14 RESIDENTIAL ULTRA-LOW-FLUSH TOILET REPLACEMENT PROGRAMS [Section 10631(f)(1)(N), (2),(3), (4)]**

A residential ultra-low-flush toilet program is available to VCWD's customers through USGVMWD, in partnership with MWD. The residential ultra-low-flush toilet replacement program is funded by MWD in conjunction with its member agencies. MWD offers financial incentives for replacing high-flush-volume toilets with ultra-low-flush toilets. Residential communities are encouraged to replace their high-flush-volume toilets with ultra-low-flush toilets by being offered a financial rebate. More information regarding the residential ultra-low-flush toilet replacement program is located in USGVMWD's 2005 UWMP, which is incorporated by reference.



## CHAPTER 6

### WATER SUPPLY OPPORTUNITIES

#### 6.1 FUTURE SUPPLY OPPORTUNITIES [Section 10631(h)]

*Section 10631*

- (h) *Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water uses as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs, other than the demand management programs identified pursuant to paragraph (1) of subdivision (f), that the urban water supplier may implement to increase the amount of water supply available to the urban water supplier in average, single dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.*

VCWD has groundwater pumping rights in the Main Basin. The management structure of the Main Basin ensures a reliable groundwater supply to meet VCWD's future water demand, which is discussed in Chapter 3. In addition to relying on the management structure of the groundwater basin, VCWD is developing water supply projects to optimize the use of its groundwater supply. In July 2005, VCWD developed an update to its 1999 Water Master Plan, as shown in Appendix J. Included in the July 2005 Water Master Plan were recommendations to improve VCWD's water supply system. VCWD staff recommended improvements in two phases, Phase I improvements are to be made within the next 5 years and Phase II improvements are to be made within the next 10 years. A list of the recommended improvements is located on page 4 and 5 of the July 2005 Water Master Plan Update (Appendix J). Currently there is not a plan for the implementation of the recommendations made in the July 2005 Water Master Plan; however, VCWD is evaluating the list of improvements to develop future water supply projects.

#### 6.2 DESALINATED WATER [Section 10631(i)]

- (i) *Describe the opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.*



VCWD does not have opportunities to incorporate desalinated water into its supply. VCWD pumps groundwater from the Main Basin which is low in Total Dissolved Solids (TDS) and does not require desalination. According to "Main San Gabriel Watermaster's 2003-04 Thirty-first Annual Area Agency Water Quality Monitoring Report for the Main San Gabriel Basin", the average TDS value for VCWD wells is about 285 milligrams per liter (mg/L) and ranges from 240 mg/L to 370 mg/L. Therefore, VCWD does not have the need to desalinate water at this time.

### 6.3 WATER USE PROJECTIONS

*Section 10631*

*(k) Urban water suppliers that rely upon a wholesale agency for a source of water shall provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years as far as data is available. The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, the existing and planned sources of water as required by subdivision (b), available from the wholesale agency to the urban water supplier over the same five-year increments, and during various water-year types in accordance with subdivision (c). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (c).*

VCWD notified Upper District of the development of its 2005 UWMP and made a copy of its draft 2005 UWMP available to Upper District by request. Upper District in turn provided VCWD with a copy of their draft 2005 UWMP, which is incorporated as a reference in this Plan.



## CHAPTER 7

### URBAN WATER SHORTAGE CONTINGENCY ANALYSIS

*Section 10632.*

*The Plan shall provide an urban water shortage contingency analysis that includes each of the following elements that are within the authority of the urban water supplier:*

- (a) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.*
- (b) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.*
- (c) Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.*
- (d) Additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.*
- (e) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.*
- (f) Penalties or charges for excessive use, where applicable.*
- (g) An analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.*
- (h) A draft water shortage contingency resolution or ordinance.*
- (i) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.*

#### 7.1 MANAGEMENT OF WATER SHORTAGES

VCWD's water system historically has relied exclusively on groundwater supplies from the Basin and has never experienced a groundwater supply shortage due to hydrologic conditions. In the event of mechanical failure of one of its wells, VCWD has interconnections with MWD, the City of Azusa and SGVWC. VCWD has experienced a decrease in its groundwater production as the result of groundwater contamination in the late 1980's and again in the early 2000's as shown on Table 4. During that period, VCWD relied on MWD for treated imported water to supplement its groundwater supplies. As a result, VCWD has constructed and been permitted to operate treatment



facilities at is Clinton O. Nixon and Maine Street wellfields. In addition, VCWD has access to a regional treatment facility at its Lante Plant. Consequently, VCWD does not expect its groundwater supplies to be restricted by contamination in the future.

## 7.2 STAGES OF ACTION [Section 10632 (a)]

*Section 10632.*

*The Plan shall provide an urban water shortage contingency analysis that includes each of the following elements that are within the authority of the urban water supplier:*

- (a) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.*

VCWD historically has relied exclusively on the Main Basin for water supplies. As explained in Chapter 3, the Main Basin has never experienced a shortage due to hydrologic conditions and is not expected to be subject to such a shortage. In the event of a shortage, VCWD would be subject to stages of action developed by MWD regarding delivery of treated imported water and untreated imported water (through USGVMWD). These stages are addressed in the section titled "Water Surplus and Drought Management Plan" in MWD's 2005 RUWMP, which is incorporated by reference.

## 7.3 THREE YEAR MINIMUM WATER SUPPLY [Section 10632 (b)]

*Section 10632.*

- (b) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.*

VCWD's experienced a three-year drought sequence from fiscal year 1999-00 to fiscal year 2001-02. During those years, VCWD had an adequate water supply to meet its demands, as shown on Table 6. It is anticipated VCWD will be able to provide adequate water to its customers in the next three-year period. Table 10 shows VCWD's projected water supply reliability in the next 20 years for an average water year, single-dry water year and in a multiple-dry year sequence.

In addition, VCWD has a total current well capacity of about 25,975 acre-feet, as shown on Table 1, which is greater than the historic water demand of VCWD's



customers, as shown on Table 7. Since the minimum water supply available to VCWD is also a function of the capacity of its well, VCWD is expected to have an adequate supply for its customers in the next three-year drought sequence. VCWD's projected water use is not expected to exceed 10,400 acre-feet in the next 20 years, as shown on Table 8. Compared to the capacity of VCWD's well capacity, VCWD has a surplus of supply of about 15,600 acre-feet.

#### **7.4 PREPARATION FOR CATASTROPHIC INTERRUPTION IN WATER SUPPLY [Section 10632 (c)]**

*Section 10632.*

*(c) Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.*

VCWD has prepared an Emergency Response Plan (Appendix K) which prescribes actions VCWD staff will undertake in the event of a catastrophic interruption of supplies. Such an interruption includes, but is not limited to, a regional power outage, an earthquake or other disaster. In the event of a system failure, VCWD has a 30 cfs connection with MWD (USG-9) that can satisfy VCWD's average day demand.

The Emergency Response Plan incorporates actions to prepare VCWD Board of Directors, the General Manager, and staff for emergency situations, and it encourages mitigation measures to VCWD facilities. Emergency facilities, such as an emergency generator, have been installed at some VCWD facilities. The Emergency Response Plan also includes actions required by the VCWD Board of Directors, the General Manager and staff immediately following an emergency situation until a system recovery has occurred.

In the event of an emergency, the General Manager becomes the Manager of Emergency Services and the Field Superintendent becomes the Incident Superintendent. An Emergency Operations Center (EOC) is designated in the Emergency Plan and will serve as the primary focal point to direct response in an emergency situation. At the EOC, a majority of the information pertaining to the



emergency situation will be gathered, analyzed, distributed back to operational sites and acted on by the application of damage assessment and repair. This will affect events in the field which will generate new information, which is then collected and analyzed, distributed to those who need it, and again acted on. This cycle will continue until emergency is sufficiently controlled until such time EOC is no longer needed.

The Emergency Response Plan identifies pertinent facilities and agencies such as the local police station, fire station and hospitals. The Emergency Response Plan also identifies pertinent water facilities such as location and capacity of interconnections, booster stations and reservoirs. Furthermore, the Emergency Response Plan identifies action to be taken by VCWD in situations where water service is discontinued, such as water contamination, and main breaks. VCWD intends to install automatic shut-off valves on some of its primary reservoirs in hopes of having sufficient stored water for use subsequent to any major earthquakes.

## 7.5 PROHIBITIONS AND REDUCITON METHODS [Section 10632 (d),(e)]

*Section 10632.*

- (d) Additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.*
- (e) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.*

VCWD has established mandatory prohibitions or penalties against excessive water use in Ordinance 4-91-120, included in Appendix I. These prohibitions consist of the following actions:

- Lawn watering and landscape irrigation with potable water is permitted only between the hours of 6 p.m. and 9 a.m.
- Watering is permitted at any time if a hand-held hose equipped with a positive shut-off nozzle is used, a hand-held faucet-filled bucket of five gallons or less is used, or a drip irrigation system is used.



- No customers shall cause or allow the water to run off landscape areas into adjoining streets, sidewalks or other paved areas due to incorrectly directed or maintained sprinklers or excessive watering.
- Washing of buildings, facilities, equipment, autos, trucks, trailers, boats, airplanes and other types of mobile equipment is prohibited except where a hand-held hose equipped with a positive shut-off nozzle for quick rinses is used. Whenever possible, such as when washing vehicles, a bucket wash is encouraged.
- Washings are exempted from these regulations where the health, safety and welfare of the public is contingent upon frequent washing of vehicle or other facility and equipment cleaning, such as garbage trucks and vehicles used to transport food and perishables.
- Water shall not be used to wash down hard surfaces such as sidewalks, driveways, parking areas, tennis courts, patios, or other paved areas, except to alleviate immediate fire, sanitation or health hazards.
- Draining and refilling swimming pools and spas is prohibited. Adding make up water to swimming pools and spas is permitted but only within monthly allocation limits.
- Filling/refilling of decorative ponds, fountains, and artificial lakes is prohibited.
- Water from fire hydrants shall be used only for fire fighting and public welfare activities.
- Flushing of water mains will not be permitted except as necessary to protect the public health.
- Restaurants shall not serve water to their customers unless specifically requested.
- Leaks must be repaired as soon as discovered and shall not be allowed to continue for more than 72 hours.
- No water shall be provided from a new water service installed after the effective date of this ordinance unless the plumbing fixtures connected to the new water service are ultra low volume water use fixtures.



## 7.6 PENALTIES OR CHARGES [Section 10632 (f)]

*Section 10632.*

*(f) Penalties or charges for excessive use, where applicable.*

Incorporated in Ordinance 4-91-120 (Appendix I), VCWD has established penalties for excessive water use. The following is a summary of VCWD's penalties.

- Violation of Ordinance 4-91-120 is punishable by rate surcharges for excessive water usage or an administrative fee for service termination and flow restriction for violation of Section 5, Use Restriction.
- In addition, a written notice will be given to each customer upon initial violation of the Ordinance. The notice will be given to the person who applied for the water service at the billing address and will warn the customer of the consequences. The written notice will also advise the customer of the violation and the rate surcharges and advise the customer of the opportunity to request administrative review.
- A customer who exceeds their water allotment shall pay a rate surcharge of \$0.95 per CCF for all water delivered in excess of their allotment. This rate surcharge may be adjusted by resolution of the VCWD Board of Directors to reflect current charges to VCWD for not meeting regional water conservation requirements.
- VCWD may terminate service or install a flow restricting device at a customer's meter for any customer who exceeds their water allotment more than twice or violates Section 4, Use Restrictions, more than twice during an emergency water conservation period. A fee equal to the current VCWD fee for processing a meter turnoff will be applied to the customer's account. The termination of service or service flow restrictor shall be enforced for a minimum of 24 hours for the first violation increasing 24 hours for each subsequent violation of this Ordinance.
- Rate surcharge and administrative payments may be used by the VCWD to reduce the cost of water served, provide incentives for water conservation, fund penalties assessed against VCWD and to administer this Ordinance.

## 7.7 REVENUE AND EXPENDITURE IMPACTS [Section 10632 (g)]

*Section 10632.*

*(g) An analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water*



*supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.*

VCWD has developed a tiered rate structure, as shown in Appendix H, which 1) establishes a minimum monthly fixed charge for water service and 2) rewards water conservation with lower water rates. VCWD is cognizant of seasonal variation of water supply and, in turn, water sales. As a result, the City has developed a rate structure that conservatively and consistently will generate sufficient fixed income, based on water connections, to fund fixed costs. As an example, the fixed charge for fiscal year 2005-06 are expected to generate about \$1,500,000. In addition, revenue from water sales would generate about \$1,400,000 assuming a 50 percent reduction, for total revenue of about \$2,900,000. In comparison, salaries (\$2,000,000) 50 percent of power (\$315,000) and 50 percent of maintenance (\$500,000) amounts to about \$2,815,000 resulting in a surplus of about \$85,000. Fixed costs for staffing, insurance and rent were adequately funded. Variable costs such as repairs, cost of energy, and supplies are tied to the level of water service actually provided and will be funded by water sales. This cursory review of the VCWD's fixed revenue and expenses along with the adopted rate structure indicates a reduction in sales should not result in a funding deficit.

## **7.8 WATER SHORTAGE CONTINGENCY ORDINANCE [Section 10632 (h)]**

*Section 10632.*

*(h) A draft water shortage contingency resolution or ordinance.*

VCWD has a water shortage contingency ordinance as shown in Appendix I.

## **7.9 REDUCTION MEASURING MECHANISM [Section 10632 (i)]**

*Section 10632.*

*(i) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis*

Section 10632 (i) requires a mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis. VCWD has a program to monitor water use within its boundaries. VCWD tabulates groundwater and



imported water use. Such tabulations are then used to determine seasonal and annual fluctuations in water use. VCWD can compare total water use from one year to the next to determine actual reductions in water use. In addition, VCWD can compare differences in water use, by customer, from one year to the next. Significant increases are investigated by VCWD staff.



## CHAPTER 8

### RECYCLED WATER

*Section 10633*

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

#### 8.1 BACKGROUND

In 1976, USGVMWD and SGVMWD completed a study entitled "Potential Use of Reclaimed Water for Groundwater Replenishment in the Basin." This study was updated at the request of the Basin Watermaster in 1980 and again in March 1987. In 1979, a cooperative study was completed by Metropolitan and others entitled "Orange and Los Angeles Counties Water Reuse Study." These studies concluded that water reuse in the Main Basin could be feasible. However, the cost of utilizing recycled water varies widely with the quantity to be used and the distance from the treatment plant to the point of use. VCWD currently does not use recycled water and could not directly benefit from a large-scale recycling project due to its distance from the source of supply. However, VCWD could receive indirect benefits from a large-scale recycling project through the reduction of groundwater pumping by others in the Main Basin.

#### 8.2 WASTEWATER COLLECTION AND TREATMENT SYSTEMS [Section 10633(a)]

*Section 10633*

*(a) A description of the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.*

The Los Angeles County Sanitation District (CSD) operates two reclamation plants, which can be utilized by producers in the Main Basin, Whittier Narrows Water Reclamation Plant (WNWRP) and San Jose Creek Water Reclamation Plant



(SJCWRP). The location of these reclamation plants are shown on Plate 5. For both reclamation plants, WNWRP and SJCWRP, the balance of effluent is discharged to the San Gabriel River and eventually flows to the ocean.

The WNWRP, which began operation in 1962, was the first reclamation plant built by the CSD. It has a treatment capacity of about 15 million gallons per day (MGD) and provides coagulated, filtered and disinfected tertiary effluent. The WNWRP serves a population of approximately 150,000 people.

The SJCWRP, which began operation in 1973, currently has a treatment capacity of about 100 MGD and provides coagulated, filtered and disinfected tertiary effluent. The SJCWRP has room for an expansion of an additional 25 MGD, which has an anticipated completion date in 2006. The SJCWRP plant serves a population of approximately 1 million people, largely a residential population.

### 8.3 RECYCLED WATER USE [Section 10633(b)]

*Section 10633*

*(b) A description of the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.*

VCWD currently does not use recycled water within its service area due to the lack of infrastructure. Although, VCWD does not have an opportunity to incorporate recycled water into its supply at this time, VCWD will look at the possibility of incorporating recycled water as a future water supply source.

### 8.4 POTENTIAL USES OF RECYCLED WATER [Section 10633(c)]

*Section 10633*

*(c) A description and quantification of the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.*



USGVMWD, along with SGVMWD and in cooperation with Main Basin Watermaster, proposed to implement a groundwater recharge program using recycled water referred to as the San Gabriel Valley Recycled Water Demonstration Project. This project proposes to recharge the Main Basin using up to 10,000 acre-feet per year of tertiary treated recycled water. The source of the recycled water will be the SJCWRP and the point of recharge will be the San Gabriel River. Although the maximum amount of recycled water that would be recharged into the San Gabriel River in any year would be 10,000 acre-feet, in some years this amount is anticipated to be less due to Key Well limitations on groundwater recharge and other constraints. Recycled water recharge over the long term is anticipated to average about 8,000 acre-feet per year. The design portion of this project has been completed; however, a study of the project's potential is still underway. The CSD is currently conducting a study on methods to provide additional treatment prior to use of recycled water for groundwater recharge.

During calendar year 1994, USGVMWD participated in a study to determine potential direct users of recycled water. In October 1994, a draft report of the study entitled, "Direct Reuse Study" was released, which identified over 600 potential recycled water users within the Main Basin. Fifty-six of the potential recycled water users are located within VCWD's service area. The locations and projected annual water usage of the potential recycled water users are shown on Table 9. The potential recycled water uses within VCWD's service area include parks, schools, businesses, nurseries, hospital, golf courses and irrigation needs.

## 8.5 PROJECTED USE OF RECYCLED WATER [Section 10633(d)]

### *Section 10633*

*(d) The projected use of recycled water within the supplier's service area at the end of 5, 10, 15 and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision.*

In addition to the San Gabriel Valley Recycled Water Demonstration Project, USGVMWD, SGVMWD, and Central Basin Municipal Water District have entered into a Memorandum of Understanding (MOU) to identify the potential to expand use of



recycled water. As a member of USGVMWD, VCWD could indirectly benefit from this study. However, the projected use of recycled water for the City for the next 20 years is uncertain until a plan is fully developed. Additional information regarding the MOU is located in USGVMWD's UWMP, which is incorporated by reference.

## **8.6 FUTURE PLANS FOR RECYCLED WATER [Section 10633(e) and (f)]**

### *Section 10633*

- (e) A description of actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water used per year.*
- (f) A plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems, to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.*

As discussed in Section 8.4, USGVMWD has conducted studies to identify potential direct users of recycle water in VCWD's service area. These studies are currently in their planning stages. Based on the results of the studies, a plan may be developed for potential recycled water use within VCWD. Because none of the recycled water facilities have been constructed, it is premature to quantify financial incentives.



## CHAPTER 9

### WATER QUALITY

*Section 10634*

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

#### 9.1 GROUNDWATER [Section 10634(a)]

Currently VCWD supplies water to its customers from seven production wells (Maine East and West, Clinton O Nixon East and West, Lante, SA1-1, and SA1-2) located within the Main Basin, as described in Chapter 2. Most of these wells are contaminated and are treated to meet drinking water standards.

##### 9.1.1 LANTE TREATMENT FACILITY

Since the late 1970's, VOCs has been detected at the Lante Well at concentrations above the MCLs. The VOCs detected are primarily Carbon Tetrachloride (CTC), 1,2-Dichloroethane (1,2-DCA), Trichloroethylene (TCE) and Tetrachloroethylene (PCE). The historic highest TCE concentration was 1,315 micrograms per liter ( $\mu\text{g/L}$ ) and the historic highest PCE concentration was 1,200  $\mu\text{g/L}$ , both exceeded two hundred times of their MCLs of 5  $\mu\text{g/L}$ . In addition to VOCs, N-Nitrosodimethylamine (NDMA), Perchlorate, and 1,4-Dioxane have also been detected at the Lante Well. The highest NDMA concentration detected at the Lante Well was 3.0  $\mu\text{g/L}$  in May 1998. The highest Perchlorate concentrations was 94  $\mu\text{g/L}$  in April 1998, and the highest 1,4-Dioxane concentration was 36.8  $\mu\text{g/L}$  in November 1998. VCWD has constructed a treatment facility at its Lante Plant to treat VOCs, Perchlorate, NDMA and 1,4-Dioxane from its Lante Well to non-detectable levels. VCWD's Lante Plant has a capacity of about 1,500 gpm.



SA1-1 Well and SA1-2 Well were drilled in the vicinity of the Lante Plant, as shown on Plate 1. VOCs, Perchlorate, NDMA and 1,4-Dioxane were also detected at SA1-1 and SA1-2 Wells and water from these wells is treated at the Lante Plant treatment facility.

The Lante Treatment Plant was designed to treat water produced at VCWD's Lante Well, SA1-1 Well and SA1-2 Well and to intercept other contaminations from infecting VCWD's other wells. As shown on Plate 1, VCWD's Lante Treatment Plant (including SA1-1 and SA1-2 Wells) is located easterly of its other wells. Therefore, the Lante Treatment Plant can intercept contamination before it impacts VCWD's Maine Street Plant and Clinton O. Nixon Plant.

#### **9.1.2 MAINE STREET TREATMENT FACILITY**

VCWD has a LPGAC treatment facility at its Maine Street Plant with a capacity of 6,000 gpm. The LPGAC treatment facility is used to remove VOCs from its Maine East and West Wells to non-detectable levels. In addition, Perchlorate has also been detected at Maine East and West Wells once. The concentration for Perchlorate detected at the Maine East and West Wells were 7.8 µg/L and 6.3 µg/L, respectively, which are above the notification level (NL) for Perchlorate of 6 µg/L. VCWD took the wells out of service temporarily when Perchlorate was detected, however, VCWD currently operates the Maine East and West Wells.

#### **9.1.3 CLINTON O. NIXON TREATMENT FACILITY**

VCWD has a LPGAC treatment facility at its Clinton O. Nixon Plant with a capacity of 3,400 gpm. PCE was detected above the MCL at Clinton O. Nixon East and West Wells during fiscal year 2003-04. VCWD installed a LPGAC treatment facility to



remove VOCs detected at its Clinton O. Nixon, East and West Wells. No other contaminant has been detected above any drinking water standard at Clinton O Nixon East and West Wells.

## 9.2 RELIABILITY

Although contaminants have been detected at all of VCWD's wells, VCWD has either taken the wells out of service or removed the contaminants before delivering the water to its customers. VCWD's treatment facilities have a combined capacity of about 10,900 gpm and are used to treat its water supply to ensure all water served to its customers meet the California Health Department Service's drinking water standards. The average day water demand within VCWD's service area is about 5,400 gpm. Therefore, VCWD's treatment facilities have the capacity to provide a reliable source of supply.



## CHAPTER 10

### WATER SERVICE RELIABILITY

#### 10.1 ASSESSMENT OF THE RELIABILITY OF WATER SUPPLY [Section 10635 (a)]

*Section 10635*

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

VCWD produces its groundwater supply from wells located within the Main Basin. Chapter 3 demonstrates the management structure of the Main Basin provides a reliable source of groundwater supply for VCWD in an average, single-dry and multiple-dry water years. Historic data presented in Table 4 indicates the groundwater supply has remained relatively stable for the past 20 years, with exception in the 2003-04 when VCWD experienced groundwater contamination.

Groundwater contamination affected VCWD's water supply by reducing the amount of water VCWD produced from the Main Basin. However, VCWD utilized its emergency interconnections during those times to supplement its groundwater supplies. As described in Chapter 3, VCWD has three interconnections, with 1) MWD, 2) the City of Azusa and 3) SGVWC. If needed, VCWD can receive water through its emergency interconnections to supply its customers.

In addition to its groundwater supplies, VCWD receives a portion of CIC's water supply who in turn relies on groundwater from the Main Basin. Therefore, the water



supply VCWD receives from CIC provides a reliable source of supply for VCWD in an average, single-dry and multiple-dry water years.

VCWD will continue to use a combination of groundwater and CIC water as its future supplies over the next 20 years and these supplies have been determined to be adequate. According to VCWD's projected water supply (Table 5) and projected water use (Table 8), VCWD will have adequate water supplies for the next 20 years. In addition, Table 10 shows the projected reliability of VCWD's water supply in an average, single dry and multiple dry year sequence in the next 20 years. According to Table 10, in an average water year, single dry water year or a multiple dry year sequence, VCWD will have a surplus of supply.

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**TABLE 1**  
**VALLEY COUNTY WATER DISTRICT**  
**WELL SUMMARY**

<u>ACTIVE WELLS</u>	<u>WELL CAPACITY</u>	
	<u>GPM</u>	<u>ACRE-FEET</u>
Maine Street East	2,183	3,521
Maine Street West	1,213	1,957
Clinton O. Nixon East	2,875	4,637
Clinton O. Nixon West	2,864	4,620
Lante	3,400	4,900
SA1 - 1	2,700	3,890
SA2 - 2	1,700	2,450
<b>TOTAL CAPACITY OF CURRENT PRODUCTION WELLS</b>	<b>16,935</b>	<b>25,975</b>

<u>INACTIVE WELLS</u>	<u>WELL CAPACITY</u>	
	<u>GPM</u>	<u>ACRE-FEET</u>
Arrow	3,000	4,600
Big Dalton	3,000	4,600
Palm	740	1,194
Morada	1,200	1,936
Paddy Lane	1,463	2,360
<b>TOTAL CAPACITY OF INACTIVE WELLS</b>	<b>9,403</b>	<b>14,690</b>

<b>TOTAL CAPACITY OF ALL WELLS</b>	<b>26,338</b>	<b>40,665</b>
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TABLE 2  
CLIMATE

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Average High Temperature (°F)	65°	67°	69°	72°	76°	82°	87°	89°	85°	81°	72°	63°
Average Low Temperature (°F)	41°	43°	45°	48°	52°	57°	62°	63°	58°	54°	47°	42°
Average Temperature (°F)	54°	55°	57°	60°	64°	69°	74°	76°	73°	68°	60°	54°

Notes:

Source: <http://www.city-data.com/city/California.html>

°F - Degrees Fahrenheit



**TABLE 3**

**HISTORIC ANNUAL RAINFALL IN THE SAN GABRIEL VALLEY FROM 1958-89 THROUGH 2003-04\***

<u>WATER YEAR</u>	<u>RAINFALL IN INCHES</u>
1958-59	8.5
1959-60	10.6
1960-61	5.9
1961-62	22.4
1962-63	12.3
1963-64	9.4
1964-65	15.2
1965-66	19.6
1966-67	25.0
1967-68	15.0
1968-69	30.5
1969-70	11.1
1970-71	13.3
1971-72	8.5
1972-73	22.4
1973-74	16.8
1974-75	14.9
1975-76	12.1
1976-77	14.5
1977-78	38.4
1978-79	23.9
1979-80	34.8
1980-81	10.3
1981-82	18.9
1982-83	39.3
1983-84	10.6
1984-85	14.6
1985-86	22.0
1986-87	9.1
1987-88	14.9
1988-89	11.2
1989-90	12.4
1990-91	15.1
1991-92	22.8
1992-93	35.9
1993-94	11.6
1994-95	30.4
1995-96	15.6
1996-97	17.5
1997-98	36.1
1998-99	8.6
1999-00	14.4
2000-01	15.5
2001-02	6.4
2002-03	19.4
2003-04	12.7
<b>TOTAL</b>	<b>810.4</b>
<b>46-YEAR AVERAGE</b>	<b>17.6</b>

\*Annual rainfall determined as the average of rainfall at San Dimas (station 95), Pomona<sup>†</sup> (station 356C), El Monte (station 108D), and Pasadena (station 610B).

<sup>†</sup>Pomona (station 356C) replaced Walnut (station 102D) in 2000-01.



**TABLE 4**  
**HISTORIC AND CURRENT ANNUAL WATER SUPPLY**  
**(IN ACRE-FEET)**

<b>Fiscal Year</b>	<b>Main Basin</b>	<b>MWD<sup>1</sup></b>	<b>CIC<sup>2</sup></b>	<b>Total</b>
1985-86	7,808	46	132	7,986
1986-87	8,347	59	105	8,511
1987-88	8,355	268	140	8,763
1988-89	9,042	132	175	9,349
1989-90	8,163	2,031	66	10,260
1990-91	7,741	1,368	34	9,143
1991-92	6393	1,205	165	7,763
1992-93	6638	0	1,280	7,918
1993-94	8,340	0	132	8,472
1994-95	8,673	0	0	8,673
1995-96	9,272	0	33	9,305
1996-97	9,334	0	227	9,561
1997-98	8,478	0	112	8,590
1998-99	9,548	0	113	9,661
1999-00	10,553	0	150	10,703
2000-01	9,944	0	29	9,973
2001-02	10,970	0	0	10,970
2002-03	8,694	530	364	9,588
2003-04	3,019	8,116	609	11,744
2004-05	8,756	94	1,102	9,952
<b>Average</b>	<b>8,403</b>	<b>724</b>	<b>203</b>	<b>9,312</b>

1. MWD - Metropolitan Water District of Southern California
2. CIC - Covina Irrigating Company



**TABLE 5**  
**PROJECTED ANNUAL WATER SUPPLY**  
**(IN ACRE-FEET)**

<b>Fiscal Year</b>	<b>Main Basin</b>	<b>MWD<sup>1</sup></b>	<b>CIC<sup>2</sup></b>	<b>Total</b>
2009-10	10,189	0	111	10,300
2014-15	10,550	0	111	10,661
2019-20	10,925	0	111	11,036
2024-25	11,314	0	111	11,425
<b>Average</b>	<b>10,745</b>	<b>0</b>	<b>111</b>	<b>10,856</b>

- 1. MWD - Metropolitan Water District
- 2. CIC - Covina Irrigating Company



TABLE 6

HISTORIC RELIABILITY OF SUPPLY  
(IN ACRE-FEET)

Fiscal Year	<u>Average Normal Year</u>	<u>Single Dry Year</u>	<u>Multiple Dry Year Sequence</u>		
	1996-97	1998-99	1999-00	2000-01	2001-02
Water Demand	9,149	8,855	7,992	7,716	8,157
Water Supply					
Main Basin	9,334	9,548	10,553	9,944	10,970
MWD	0	0	0	0	0
CIC	227	113	150	29	0
Surplus	412	806	2,711	2,257	2,813



**TABLE 7**  
**CURRENT AND HISTORIC WATER USE BY CUSTOMER TYPE**  
**(IN ACRE-FEET)**

Fiscal Year	CUSTOMER SECTOR					Total
	Multi-Family	Single-Family	Commercial	Industrial	Public	
1984-85	--	--	--	--	--	7,951
1985-86	--	--	--	--	--	8,271
1986-87	--	--	--	--	--	8,489
1987-88	--	--	--	--	--	9,201
1988-89	399	5,744	1,510	479	731	8,863
1989-90	866	5,339	1,590	550	700	9,045
1990-91	1,145	3,930	1,117	593	556	7,341
1991-92	1,164	4,114	924	546	593	7,341
1992-93	1,219	4,326	1,397	559	605	8,106
1993-94	1,278	4,534	1,872	780	--	8,464
1994-95	1,296	4,519	2,183	370	--	8,368
1995-96	1,334	4,805	2,347	481	--	8,967
1996-97	1,341	4,951	2,391	466	--	9,149
1997-98	1,273	4,443	2,163	428	--	8,307
1998-99	1,273	4,814	2,210	558	--	8,855
1999-00	551	4,898	2,048	495	--	7,992
2000-01	529	4,786	1,927	474	--	7,716
2001-02	555	5,050	2,081	471	--	8,157
2002-03	534	4,918	2,106	450	--	8,008
2003-04	532	4,953	3,374	451	--	9,310
2004-05	1,253	4,685	2,514	424	--	8,876



2

TABLE 8

PROJECTED WATER USE BY CUSTOMER TYPE  
(IN ACRE-FEET)

Fiscal Year	CUSTOMER SECTOR			Total
	Multi-Family	Single-Family	Commercial	
2009-10	1,291	4,889	2,583	9,224
2014-15	1,342	5,080	2,684	9,585
2019-20	1,394	5,279	2,789	9,960
2024-25	1,449	5,485	2,898	10,349



**TABLE 9**

**RECLAIMED WATER STUDY - POTENTIAL DIRECT USERS**

<u>Name of Potential Direct User</u>	<u>Location</u>	<u>Estimated Annual Water Use (AF)</u>
Home Savings	1001 Commerce Dr., Irwindale	205
Garden View Nursery	Rivergrade Rd. & Lower Azusa Rd. Irwindale	36
Norman Nursery	Arrow Hwy-Azusa Cyn Rd. to Santa Fe Dr	92
Walnut School	4701 Walnut St., Baldwin Park Walnut St. & School St.	32
Heath School	14321 School St., Baldwin Park Wimmer St. & School St.	12
Holland Junior High School	4733 Landis Ave., Baldwin Park Landis Ave. & Olive St.	15
Kenmore Avenue School	3823 Kenmore Ave., Baldwin Park Kenmore Ave. & Illinois St.	10
Sierra Vista High School	3600 Frazier St., Baldwin Park Frazier St. & Franciquito Ave.	72
Foster School	13900 Foster Ave., Baldwin Park Foster Ave. & Vineyard Ave.	15
Morgan Park	14255 Ramona Blvd., Baldwin Park Ramona Blvd. & Baldwin Park Blvd.	17
Jones Junior High School	14250 Merced Ave., Baldwin Park Merced Ave. & Vineland Ave.	26
Geddes School	14600 Cavette Pl., Baldwin Park Bogart Ave. & Cavette Pl.	20
Sierra Vista Jr. High School	3600 Frazier St., Baldwin Park Frazier St. & Francisquito Ave.	18
St. Johns School	Stewart St. & Ramona Blvd.	1
Baldwin Park Unified School District	3699 Holly Ave., Baldwin Park Holly Ave. & Pacific Ave.	0.03

571



**TABLE 9 (cont.)**

**RECLAIMED WATER STUDY - POTENTIAL DIRECT USERS**

<u>Name of Potential Direct User</u>	<u>Location</u>	<u>Estimated Annual Water Use (AF)</u>
City of Baldwin Park (East Park)	15000 Badillo St., Baldwin Park Badillo St. & San Bernardino Rd.	5
City of Baldwin Park (Irrigation)	Badillo St. Median, Baldwin Park 1400 Feet East and West of Puente Ave.	6
City of Baldwin Park (Irrigation)	Baldwin Park Blvd. Median, Baldwin Park From Ramona Blvd. to Merced Ave.	9
City of Baldwin Park (Irrigation)	Live Oak Ave. Median, Baldwin Park 1600 Feet West and 1800 Feet East of Baldwin Park Ave	1
City of Baldwin Park (Irrigation)	Maine Ave. Median, Baldwin Park From Los Angeles St. to Ramona Blvd.	7
City of Baldwin Park (Irrigation)	Pacific Ave. Median, Baldwin Park Pacific Ave. & Ramona Blvd.	1
City of Baldwin Park (Irrigation)	Ramona Blvd. Median, Baldwin Park From I-605 to Badillo St.	43
Olive School	137 Olive St., Baldwin Park Olive St. & Merced Ave.	38
Central School	14741 Central Ave., Baldwin Park Central Ave. & Big Dalton Ave.	16
Vineland School	3609 Vineland Ave., Baldwin Park Vineland Ave. & Channing St.	13
Baldwin Park High School	3900 Puente Ave., Baldwin Park Puente Ave. & Dexter St.	60
Santa Fe School	4650 Baldwin Park Blvd., Baldwin Park Baldwin Park Blvd. & Dunia St.	2.5
Northpark School	4600 Bogart Ave., Baldwin Park Bogart Ave. & Hallwood Dr.	3
Baldwin Park School District	13529 Francisquito Ave., Baldwin Park	3

205  
776



**TABLE 9 (cont.)**

**RECLAIMED WATER STUDY - POTENTIAL DIRECT USERS**

<u>Name of Potential Direct User</u>	<u>Location</u>	<u>Estimated Annual Water Use (AF)</u>
Day Care Center	Francisquito Ave. & Baldwin Park Blvd.	
Baldwin Park School District Adult Education	4620 Maine Ave., Baldwin Park Maine Ave. & Hallwood Dr.	0.5
Baldwin Park School District Adult Education	4640 Maine Ave., Baldwin Park Maine Ave. & Hallwood Dr.	2
Baldwin Park School District Adult Education	4656 Maine Ave., Baldwin Park Maine Ave. & Hallwood Dr.	3
Birtcher Campbell	Arrow Hwy & Irwindale Ave., Irwindale	9
Brothers Nursery	Merced at Nubia, Baldwin Park	6
Cal-Trans (Irrigation)	14625 Dalewood St., Baldwin Park Dalewood St. & Francisquito Ave.	4
Cal-Trans (Irrigation)	14610 Garvey Ave., Baldwin Park Between Big Dalton Wash & Puente Ave.	2
Cal-Trans (Irrigation)	3001 Maine Ave., Baldwin Park Maine Ave. & Garvey Ave.	0.5
Calmat Co.	4563 Park Ave., Baldwin Park/Irwindale 1200 Feet North of Los Angeles St.	9-
Calmat Co.	4702 Azusa Canyon Rd., Irwindale Azusa Canyon Rd. & Cypress St.	11-
Hughes Markets	14005 Live Oak Ave., Irwindale Live Oak Ave. & Rivergrade Ave.	16-
Hughes Market	5305 Rivergrade Rd., Irwindale Rivergrade Rd. & Stewart Ave.	12-
Hughes Market	5305 Rivergrade Rd., Irwindale Rivergrade Rd. & Stewart Ave.	21-
City of Irwindale City Hall	5050 Irwindale Ave., Irwindale	0.1
City of Irwindale	5128 Ayon Ave., Irwindale	9



TABLE 9 (cont.)

RECLAIMED WATER STUDY - POTENTIAL DIRECT USERS

Name of Potential Direct User	Location	Estimated Annual Water Use (AF)
Commerical Park		
City of Irwindale (Park)	5140 Irwindale Ave., Irwindale	3 14
City of Irwindale (Median Irrigation)	4900 Allen Dr, Irwindale	1
City of Irwindale (Irrigation)	5128 Ayon Ave., Irwindale	12
City of Irwindale (Irrigation)	Live Oak Ave., at Rivergrade Rd., Irwindal	10
City of Irwindale (Median Irrigation)	Los Angeles St. & Park Ave., Irwindale	3
City of Irwindale (Irrigation)	Rivergrade Rd. & Commerce Dr., Irwindal	10
Liquid Carbonic Corp.	16125 Ornelas St., Irwindale	71-
Nu Way Landfill	13622 Live Oak Ln., Irwindale	1
Pacon Paper	4249 Puente Ave., Baldwin Park	4-
Rodeffer Investments	4600 Rivergrade Rd., Irwindale	1
Spancrete of California	13131 Los Angeles St., Irwindale	7-
Westar Park Plaza	14521 Ramona Blvd., Baldwin Park	8

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~~108~~  
 1025  
 - 151 Indst  
 874 Indst



**TABLE 10**

**PROJECTED RELIABILITY OF SUPPLY  
(IN ACRE-FEET)**

FISCAL YEAR 2009-10	Average Year	Dry Year	Multiple Dry Year Sequence		
			Year 1	Year 2	Year 3
Demand	9,224	8,929	8,062	7,776	8,228
Supply					
Main Basin	10,189	10,189	10,189	10,189	10,189
MWD	0	0	0	0	0
CIC	111	111	111	111	111
Surplus	1,076	1,371	2,238	2,524	2,072

FISCAL YEAR 2014-15	Average Year	Dry Year	Multiple Dry Year Sequence		
			Year 1	Year 2	Year 3
Demand	9,585	9,278	8,377	8,080	8,550
Supply					
Main Basin	10,550	10,550	10,550	10,550	10,550
MWD	0	0	0	0	0
CIC	111	111	111	111	111
Surplus	1,076	1,383	2,284	2,581	2,111

FISCAL YEAR 2019-20	Average Year	Dry Year	Multiple Dry Year Sequence		
			Year 1	Year 2	Year 3
Demand	9,960	9,641	8,705	8,396	8,884
Supply					
Main Basin	10,925	10,925	10,925	10,925	10,925
MWD	0	0	0	0	0
CIC	111	111	111	111	111
Surplus	1,076	1,395	2,331	2,640	2,152

FISCAL YEAR 2024-25	Average Year	Dry Year	Multiple Dry Year Sequence		
			Year 1	Year 2	Year 3
Demand	10,349	10,018	9,045	8,724	9,231
Supply					
Main Basin	11,314	11,314	11,314	11,314	11,314
MWD	0	0	0	0	0
CIC	111	111	111	111	111
Surplus	1,076	1,407	2,380	2,701	2,194







**APPENDIX A**  
California Urban Water  
Management Planning Act



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

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

- AB 11X, Filante, 1991

AB 1869, Speier, 1991

AB 892, Frazee, 1993

SB 1017, McCorquodale, 1994

AB 2853, Cortese, 1994

AB 1845, Cortese, 1995

SB 1011, Polanco, 1995

AB 2552, Bates, 2000

SB 553, Kelley, 2000

SB 610, Costa, 2001

AB 901, Daucher, 2001

SB 672, Machado, 2001

SB 1348, Brulte, 2002

SB 1384, Costa, 2002

SB 1518, Torlakson, 2002

AB 105, Wiggins, 2004

SB 318, Alpert, 2004

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

### CHAPTER 1. GENERAL DECLARATION AND POLICY

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

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

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



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

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

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

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

## CHAPTER 2. DEFINITIONS

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



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

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

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

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

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

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

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

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

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

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

10620.

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



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

10621.

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

## Article 2. Contents of Plans



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

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

- (a) Describe the service area of the supplier, including current and projected population, climate, and other demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.
- (b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a). If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:
  - (1) A copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management.
  - (2) A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree.

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

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



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

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

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



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



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



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

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

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

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

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



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

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

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

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



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

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

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

10635.

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



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

### Articl 3. Adoption and Implementation of Plans

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

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

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

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

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

10644.

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



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

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

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

#### CHAPTER 4. MISCELLANEOUS PROVISIONS

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

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

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

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



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

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

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

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

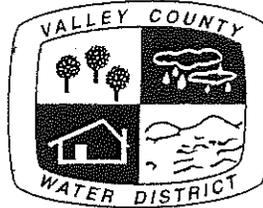
10657.

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



**APPENDIX B**  
Notification Letter





14521 Ramona Boulevard • Baldwin Park, CA 91706  
Office: 626.338.7301 Fax: 626.814.2973

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## MEMORANDUM

**TO:** City Clerk  
**FROM:** Valley County Water District  
**SUBJECT:** Urban Water Management Plan  
**DATE:** February 13, 2006

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The Urban Water Management Planning Act requires every "urban water supplier"<sup>1</sup> to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Valley County Water District (VCWD) is currently in the process of updating our 2000 UWMP.

As an urban water supplier, VCWD is required pursuant to Section 10621 of the UWMP Act to notify all cities or counties within our service area that we will be reviewing the UWMP and will make amendments and changes, as appropriate. VCWD encourages all cities that fall within our boundaries to participate in the development of the 2005 UWMP by providing any input and comments.

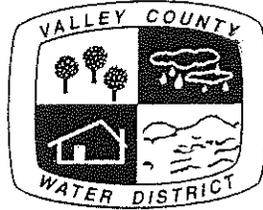
In accordance with Section 10621 VCWD will provide the City of Azusa with a copy of the UWMP within 60 days after submission of our UWMP to Department of Water Resources in response to a written request.

If you have any questions regarding the update of the UWMP update please contact our consultants, Stetson Engineers Inc., at (626) 967-9202.

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<sup>1</sup>Section 10617 of the Urban Water Management Planning Act states, "'Urban Water Supplier' means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.





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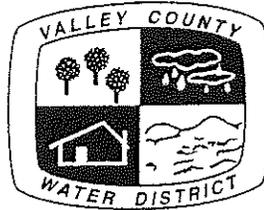
In accordance with Section 10621 VCWD will provide the City of West Covina with a copy of the UWMP within 60 days after submission of our UWMP to Department of Water Resources in response to a written request.

If you have any questions regarding the update of the UWMP update please contact our consultants, Stetson Engineers Inc., at (626) 967-9202.

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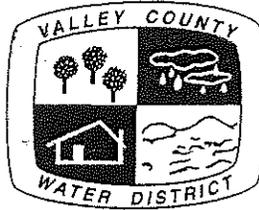
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**DATE:** February 13, 2006

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The Urban Water Management Planning Act requires every "urban water supplier"<sup>1</sup> to prepare and adopt an Urban Water Management Plan (UWMP) and periodically update that plan at least once every five years on or before December 31, in years ending in five and zero. The UWMP is a planning document and a source document to direct urban water suppliers to evaluate and compare their water supply and reliability to their existing water conservation efforts. Valley County Water District (VCWD) is currently in the process of updating our 2000 UWMP.

As an urban water supplier, VCWD is required pursuant to Section 10621 of the UWMP Act to notify all cities or counties within our service area that we will be reviewing the UWMP and will make amendments and changes, as appropriate. VCWD encourages all cities that fall within our boundaries to participate in the development of the 2005 UWMP by providing any input and comments.

In accordance with Section 10621 VCWD will provide the City of Baldwin Park with a copy of the UWMP within 60 days after submission of our UWMP to Department of Water Resources in response to a written request.

If you have any questions regarding the update of the UWMP update please contact our consultants, Stetson Engineers Inc., at (626) 967-9202.

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<sup>1</sup>Section 10617 of the Urban Water Management Planning Act states, "Urban Water Supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.



**APPENDIX C**  
Adopted Resolution



**RESOLUTION NO. 05-06-606**

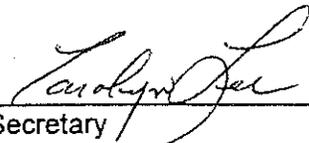
**A RESOLUTION OF THE BOARD OF DIRECTORS  
FOR VALLEY COUNTY WATER DISTRICT  
ADOPTING AN URBAN WATER MANAGEMENT PLAN  
DATED MARCH 2006 AND REPEALING RESOLUTION NO 12-00-507**

**WHEREAS**, as hearing was duly and regularly conducted by the Valley County Water District on May 16, 2006, concerning the preparation and adoption of a Urban Water Management Plan for the District.

**NOW, THEREFORE, BE IT RESOLVED**, by the Board of Directors of the Valley County Water District that the Urban Water Management Plan dated March 2006 attached hereto, and hereby incorporated by this reference as Exhibit "A", be and the same is, hereby

**PASSED, APPROVED, AND ADOPTED** this 16th day of May, 2006.

  
\_\_\_\_\_  
President

  
\_\_\_\_\_  
Secretary

(SEAL)



**APPENDIX D**  
Long Beach Judgment



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Superior Court of the State of California  
For the County of Los Angeles

BOARD OF WATER COMMISSIONERS OF  
THE CITY OF LONG BEACH, et al.,

*Plaintiffs*

vs.

SAN GABRIEL VALLEY WATER COMPANY,  
et al.,

*Defendants*

No. 722647

SETTLEMENT  
DOCUMENTS

STIPULATION FOR JUDGMENT  
JUDGMENT  
MAP OF WHITTIER NARROWS  
ENGINEERING APPENDIX  
REIMBURSEMENT CONTRACT

*Approved by Joint Negotiating  
Committees July 6, 1964.*

EXHIBIT NO. 7

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SUPERIOR COURT OF THE STATE OF CALIFORNIA  
FOR THE COUNTY OF LOS ANGELES

BOARD OF WATER COMMISSIONERS OF THE CITY OF LONG BEACH, a municipal corporation;  
CENTRAL BASIN MUNICIPAL WATER DISTRICT, a municipal water district; and CITY OF COMPTON, a municipal corporation,

Plaintiffs,

vs.

NO. 722,647

SAN GABRIEL VALLEY WATER COMPANY, a corporation; AZUSA AGRICULTURAL WATER COMPANY, a corporation; AZUSA VALLEY WATER COMPANY, a corporation; CALIFORNIA WATER & TELEPHONE COMPANY, a corporation; THE COLUMBIA LAND AND WATER COMPANY, a corporation; COVINA IRRIGATING COMPANY, a corporation; CROSS WATER COMPANY, a corporation; DUARTE WATER COMPANY, a corporation; EAST PASADENA WATER CO. LTD., a corporation; GLENDORA IRRIGATING COMPANY, a corporation; SAN DIMAS WATER COMPANY, a corporation; SOUTHERN CALIFORNIA WATER COMPANY, a corporation; SUBURBAN WATER SYSTEMS, a corporation; SUNNY SLOPE WATER CO., a corporation; VALLECITO WATER CO., a corporation; CITY OF ALHAMBRA, a municipal corporation; CITY OF ARCADIA, a municipal corporation; CITY OF AZUSA, a municipal corporation; CITY OF COVINA, a municipal corporation; CITY OF EL MONTE, a municipal corporation; CITY OF GLENDORA, a municipal corporation; CITY OF MONROVIA, a municipal corporation; CITY OF MONTEREY PARK, a municipal corporation; CITY OF SOUTH PASADENA, a municipal corporation; BALDWIN PARK COUNTY WATER DISTRICT, a county water district; and SAN GABRIEL COUNTY WATER DISTRICT, a county water district,

Defendants,

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER

STIPULATION FOR  
JUDGMENT

1 DISTRICT, a municipal water district, and )  
2 CALIFORNIA DOMESTIC WATER COMPANY, a )  
3 corporation, )  
4 Intervenor. )

5 Plaintiffs Central Basin Municipal Water District, a  
6 municipal water district (herein sometimes referred to as Central  
7 Municipal); City of Long Beach, a municipal corporation, acting  
8 by and through the Board of Water Commissioners of the City of  
9 Long Beach; and City of Compton, a municipal corporation; and  
10 defendants City of Alhambra, a municipal corporation; City of  
11 Arcadia, a municipal corporation; City of Azusa, a municipal  
12 corporation; Azusa Agricultural Water Company, a corporation, sued  
13 herein as DOE 1; Azusa Valley Water Company, a corporation, for  
14 itself and as successor by merger to Azusa Irrigating Company, a  
15 corporation; Baldwin Park County Water District, a county water  
16 district; California Water and Telephone Company, a corporation;  
17 Columbia Land and Water Company, a corporation; City of Covina, a  
18 municipal corporation; Covina Irrigating Company, a corporation;  
19 Cross Water Company, a corporation, sued herein as DOE 2; Duarte  
20 Water Company (formerly Duarte Domestic Water Company), a corpora-  
21 tion; East Pasadena Water Company, Ltd., a corporation, for itself  
22 and as successor by merger to California-Michigan Land and Water  
23 Company, a corporation; City of El Monte, a municipal corporation;  
24 City of Glendora, a municipal corporation; Glendora Irrigating  
25 Company, a corporation; City of Monrovia, a municipal corporation;  
26 City of Monterey Park, a municipal corporation; San Dimas Water  
27 Company, a corporation, sued herein as DOE 3; San Gabriel County  
28 Water District, a county water district; San Gabriel Valley Water  
29 Company, a corporation; Southern California Water Company, a cor-  
30 poration; City of South Pasadena, a municipal corporation; Subur-  
31 ban Water Systems, a corporation; Sunny Slope Water Company, a  
32 corporation; and Vallecito Water Company, a corporation; and

1 intervening defendant Upper San Gabriel Valley Municipal Water  
2 District, a municipal water district (herein sometimes referred  
3 to as Upper District); and intervening defendant California  
4 Domestic Water Company, a corporation; stipulate and agree as  
5 follows:

6 1. A Judgment in the form attached hereto as Exhibit  
7 I may be made and entered by the Court in the above-entitled  
8 action.

9 2. The following facts, considerations and objectives,  
10 among others, provide the basis for this Stipulation for  
11 Judgment:

12 (a) By their complaint plaintiffs seek a  
13 determination of the rights of the defendants,  
14 other than Upper District, in and to the waters  
15 of the San Gabriel River System and further  
16 seek to restrain defendants, other than Upper  
17 District, from an alleged interference with the  
18 rights of plaintiffs and persons represented by  
19 Central Municipal in and to said waters.

20 (b) At the present time, and for some time  
21 prior to the commencement of this action, the  
22 water supply of the San Gabriel River System has  
23 been inadequate to supply the diversions and  
24 extractions of both plaintiffs and defendants  
25 other than Central Municipal and Upper District  
26 but including the persons represented by Central  
27 Municipal and by Upper District, and as a result  
28 said diversions and extractions have exceeded,  
29 and still exceed, the natural replenishment of  
30 the water supply of the San Gabriel River System.

31 (c) The parties recognize and agree that  
32 the natural outflow from the San Gabriel Valley

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to the Lower Area as defined in the Judgment has varied, and will vary from year to year, depending on the amount of precedent rainfall and other conditions.

(d) The parties recognize and agree that there is a need for a declaration of rights and a physical solution for the problems resulting from the inadequate and varying water supplies of the San Gabriel River System.

(e) The parties agree that the physical solution contained in said Judgment will bring about a fair division of the water of the San Gabriel River System as between plaintiffs and defendants other than Central Municipal and Upper District but including the persons represented by Central Municipal and by Upper District.

(f) The parties recognize that it may be necessary for defendants or some of them to use supplemental water in order to comply with the obligations imposed under said physical solution.

(g) Defendant Upper District is now a member unit of The Metropolitan Water District of Southern California, which will be supplied with water from sources in northern California under an existing contract with the State of California. Certain of the defendants not within the area of defendant Upper District are within the area of San Gabriel Valley Municipal Water District, which district also has contracted with the State of California for delivery of water from sources in northern California. It is anticipated that the

1 importation of this water will augment the natural  
2 supply of ground water within Upper Area as defined  
3 in the Judgment. Defendant Upper District intends  
4 to replenish the San Gabriel Valley with  
5 supplemental supplies.

6 3. The parties hereto hereby waive any and all Findings  
7 of Fact, Conclusions of Law, and any and all notice of the making  
8 or entry herein of the attached form of Judgment, and all rights  
9 of appeal, if any, from such Judgment.

10 4. Plaintiffs and defendants agree that during the  
11 period prior to entry of the attached form of Judgment, they will  
12 cooperate in endeavoring to collect such information as the  
13 Watermaster would obtain if the attached form of Judgment had  
14 been entered and the Watermaster had been appointed by the Court  
15 pursuant to paragraph 6 of the Judgment, which information is  
16 herein referred to as "said information." To that end, the parties  
17 hereto hereby agree that promptly following the complete  
18 execution of this stipulation by all parties, Upper District and  
19 Central Municipal shall each notify the other in writing as to  
20 the identity of the person who it expects will be nominated as  
21 the representative of Upper Area Parties or Lower Area Parties,  
22 as the case may be, under paragraph 6 of the Judgment. Upon  
23 receiving such notice, Upper District and Central Municipal shall  
24 each instruct its designated nominee that until the attached form  
25 of Judgment is entered and the Watermaster has been appointed  
26 pursuant to paragraph 6 of the Judgment he shall in cooperation  
27 with the other designated nominee do all things reasonably  
28 necessary to obtain such of said information as is available from  
29 the parties hereto or any public agency.

30 5. Judgment shall not be rendered pursuant hereto  
31 unless and until the execution of this stipulation by Central  
32 Basin Municipal Water District and by Upper San Gabriel Valley

1 Municipal Water District shall have been validated by a decree  
2 or decrees rendered in a proceeding or proceedings instituted  
3 in a court of competent jurisdiction of the State of California,  
4 and either such decree or decrees shall have become final or  
5 both of said Districts shall have further stipulated that said  
6 Judgment shall be rendered.

7           6. This stipulation may be executed in counterparts  
8 (each counterpart being an exact copy or duplicate of the  
9 original) and all counterparts collectively shall be considered  
10 as constituting one complete Stipulation for Judgment.

11           DATED: \_\_\_\_\_, 1964.

12  
13                   Attorneys  
14 (for the respective party  
15 listed opposite and to the  
right of the respective  
attorneys listed below)

Signature of Stipulating Party  
and Its Designation of Mailing  
Address

16 Leonard Putnam  
17 City Attorney  
18 Clifford E. Hayes  
19 Principal Deputy City  
20 Attorney  
21 City of Long Beach

Board of Water Commissioners of  
the City of Long Beach

By \_\_\_\_\_  
Its \_\_\_\_\_ President

22 By \_\_\_\_\_

By \_\_\_\_\_  
Its \_\_\_\_\_ Secretary

23 Burris & Lagerlof  
24 Stanley C. Lagerlof  
25 H. Jess Senecal  
26 Jack T. Swafford

1800 East Wardlow Road  
Long Beach 7, California

27 By \_\_\_\_\_

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Burriss & Lagerlof  
Stanley C. Lagerlof  
H. Jess Senecal  
Jack T. Swafford

Central Basin Municipal Water  
District

By \_\_\_\_\_

Its President

By \_\_\_\_\_

Its Secretary

7439 East Florence Avenue  
Downey, California

Lloyd A. Bulloch  
City Attorney  
City of Compton

City of Compton

By \_\_\_\_\_

Its Mayor

205 South Willowbrook Avenue  
Compton, California

Burriss & Lagerlof  
Stanley C. Lagerlof  
H. Jess Senecal  
Jack T. Swafford

By \_\_\_\_\_

Don D. Bercu  
City Attorney  
City of Alhambra

City of Alhambra

By \_\_\_\_\_

Its Mayor

Taylor & Smith

City Hall  
111 South First Street  
Alhambra, California

By \_\_\_\_\_

1	James A. Nicklin	City of Arcadia
2	City Attorney	By _____
3	City of Arcadia	Its Mayor
4	_____	City Hall
5	Surr & Hellyer	Arcadia, California
6	By _____	
7	Clayson, Stark, Rothrock	
8	& Mann	
9	By _____	
10		
11	Harry C. Williams	City of Azusa
12	City Attorney	By _____
13	City of Azusa	Its Mayor
14	_____	City Hall
15	Taylor & Smith	213 East Foothill Boulevard
16	By _____	Azusa, California
17		
18	Taylor & Smith	Azusa Agricultural Water Company
19	By _____	By _____
20		Its _____ President
21		By _____
22		Its _____ Secretary
23		18352 East Foothill Boulevard
24		Azusa, California
25	Surr & Hellyer	Azusa Valley Water Company
26	By _____	By _____
27		Its _____ President
28	Clayson, Stark, Rothrock	By _____
29	& Mann	
30	By _____	Its _____ Secretary
31		P. O. Box "W"
32		Azusa, California

1	Surr & Hellyer	Baldwin Park County Water District
2	By _____	By _____
3		Its _____ President
4	Clayson, Stark, Rothrock & Mann	By _____
5	By _____	Its _____ Secretary
6		14521 East Ramona Boulevard
7		Baldwin Park, California
8		
9	Bacigalupi, Elkus & Salinger	California Water & Telephone Company
10		
11	By _____	By _____
12	Surr & Hellyer	Its _____ President
13	By _____	By _____
14		Its _____ Secretary
15	Clayson, Stark, Rothrock & Mann	300 Montgomery Street
16	By _____	San Francisco, California
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18		
19	Allard, Shelton & O'Connor	Columbia Land & Water Company
20	By _____	By _____
21		Its _____ President
22	Surr & Hellyer	By _____
23	By _____	Its _____ Secretary
24	Clayson, Stark, Rothrock & Mann	P. O. Box 296
25		San Dimas, California
26	By _____	
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1	Allard, Shelton & O'Connor	City of Covina
2	By _____	By _____
3	Surr & Hellyer	Its Mayor
4	By _____	City Hall
5		Covina, California
6	Clayson, Stark, Rothrock & Mann	
7	By _____	
8		
9	Kerckhoff & Kerckhoff	Covina Irrigating Company
10	By _____	By _____
11	Surr & Hellyer	Its _____ President
12	By _____	By _____
13	Clayson, Stark, Rothrock & Mann	Its _____ Secretary
14	By _____	146 East College Street
15		Covina, California
16	George C. Gillette	Cross Water Company
17	_____	By _____
18		Its _____ President
19		By _____
20		Its _____ Secretary
21		15825 East Main Street
22		La Puente, California
23	Henry W. Shatford	Duarte Water Company
24	Shatford & Shatford	By _____
25	By _____	Its _____ President
26	Surr & Hellyer	By _____
27	By _____	Its _____ Secretary
28		1101 South Oak Avenue
29	Clayson, Stark, Rothrock & Mann	Duarte, California
30	By _____	
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1	Gray & Maddox	East Pasadena Water Company, Ltd.
2	By _____	By _____
3		Its _____ President
4	Surr & Hellyer	
5	By _____	By _____
6		Its _____ Secretary
6	Clayson, Stark, Rothrock	269 South Rosemead
7	& Mann	Pasadena, California
8	By _____	
9		
10	James A. Nicklin	City of El Monte
11	City Attorney	By _____
11	City of El Monte	
12	_____	Its Mayor
13		City Hall
14	Surr & Hellyer	El Monte, California
15	By _____	
16	Clayson, Stark, Rothrock	
17	& Mann	
18	By _____	
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21	Leonard A. Shelton	City of Glendora
22	City Attorney	By _____
22	City of Glendora	
23	_____	Its Mayor
24		City Hall
25	Surr & Hellyer	Glendora, California
26	By _____	
27	Clayson, Stark, Rothrock	
28	& Mann	
29	By _____	
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1	Allard, Shelton & O'Connor	Glendora Irrigating Company
2	By _____	By _____
3		Its _____ President
4	Surr & Hellyer	By _____
5	By _____	Its _____ Secretary
6	Clayson, Stark, Rothrock & Mann	224 North Michigan Avenue Glendora, California
7		
8	By _____	
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11	Homer H. Bell	City of Monrovia
12	City Attorney	By _____
13	City of Monrovia	Its Mayor
14	_____	City Hall
15	Surr & Hellyer	Monrovia, California
16	By _____	
17	Clayson, Stark, Rothrock & Mann	
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19	By _____	
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21		
22	Charles R. Martin	City of Monterey Park
23	City Attorney	By _____
24	City of Monterey Park	Its Mayor
25	_____	City Hall
26	Taylor & Smith	320 West Newmark Avenue
27	By _____	Monterey Park, California
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1	Allard, Shelton & O'Connor	San Dimas Water Company
2	By _____	By _____
3		Its _____ President
4	Surr & Hellyer	By _____
5	By _____	Its _____ Secretary
6	Clayson, Stark, Rothrock	P. O. Box 181
7	& Mann	San Dimas, California
8	By _____	
9		
10	Surr & Hellyer	San Gabriel County Water District
11	By _____	By _____
12		Its _____ President
13	Clayson, Stark, Rothrock	By _____
14	& Mann	Its _____ Secretary
15	By _____	8229 East Las Tunas Drive
16		San Gabriel, California
17		
18	J. E. Skelton	San Gabriel Valley Water Company
19	_____	By _____
20		Its _____ President
21	Surr & Hellyer	By _____
22	By _____	Its _____ Secretary
23	Clayson, Stark, Rothrock	11142 Garvey Avenue
24	& Mann	El Monte, California
25	By _____	
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1	O'Melveny & Myers	Southern California Water Company
2	By _____	By _____
3		Its _____ President
4	Surr & Hellyer	By _____
5	By _____	Its _____ Secretary
6	Clayson, Stark, Rothrock & Mann	11911 South Vermont Avenue Los Angeles 44, California
7		
8	By _____	
9		
10	Charles R. Martin City Attorney City of South Pasadena	City of South Pasadena
11		By _____
12	_____	Its Mayor
13	Surr & Hellyer	825 Mission Street South Pasadena, California
14	By _____	
15		
16	Clayson, Stark, Rothrock & Mann	
17	By _____	
18		
19	Frank E. Gray	Suburban Water Systems
20	_____	By _____
21	Surr & Hellyer	Its _____ President
22	By _____	By _____
23		Its _____ Secretary
24	Clayson, Stark, Rothrock & Mann	16340 East Maplegrove Street La Puente, California
25	By _____	
26		
27	Hahn & Hahn	Sunny Slope Water Company
28	By _____	By _____
29		Its _____ President
30		By _____
31		Its _____ Secretary
32		1040 El Campo Drive Pasadena, California

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Surr & Hellyer  
By \_\_\_\_\_  
Clayson, Stark, Rothrock  
& Mann  
By \_\_\_\_\_

Stearns, Gross and Moore  
By \_\_\_\_\_

Ralph B. Helm  
\_\_\_\_\_

Vallecito Water Company  
By \_\_\_\_\_  
Its \_\_\_\_ President  
By \_\_\_\_\_  
Its \_\_\_\_\_ Secretary  
749 South Ninth Avenue  
City of Industry, California

California Domestic Water Company  
By \_\_\_\_\_  
Its \_\_\_\_ President  
By \_\_\_\_\_  
Its \_\_\_\_\_ Secretary  
P. O. Box 1026, Perry Annex  
Whittier, California

Upper San Gabriel Valley  
Municipal Water District  
By \_\_\_\_\_  
Its \_\_\_\_ President  
By \_\_\_\_\_  
Its \_\_\_\_\_ Secretary  
11229 East Valley Boulevard  
El Monte, California

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SUPERIOR COURT OF THE STATE OF CALIFORNIA  
FOR THE COUNTY OF LOS ANGELES

BOARD OF WATER COMMISSIONERS OF THE CITY  
OF LONG BEACH, a municipal corporation;  
CENTRAL BASIN MUNICIPAL WATER DISTRICT,  
a municipal water district; and CITY OF  
COMPTON, a municipal corporation,

Plaintiffs,

vs.

NO. 722,647

SAN GABRIEL VALLEY WATER COMPANY, a cor-  
poration; AZUSA AGRICULTURAL WATER  
COMPANY, a corporation; AZUSA VALLEY  
WATER COMPANY, a corporation; CALIFORNIA  
WATER & TELEPHONE COMPANY, a corporation;  
THE COLUMBIA LAND AND WATER COMPANY, a  
corporation; COVINA IRRIGATING COMPANY, a  
corporation; CROSS WATER COMPANY, a cor-  
poration; DUARTE WATER COMPANY, a corpora-  
tion; EAST PASADENA WATER CO. LTD., a  
corporation; GLENDORA IRRIGATING COMPANY,  
a corporation; SAN DIMAS WATER COMPANY, a  
corporation; SOUTHERN CALIFORNIA WATER  
COMPANY, a corporation; SUBURBAN WATER  
SYSTEMS, a corporation; SUNNY SLOPE WATER  
CO., a corporation; VALLECITO WATER CO.,  
a corporation; CITY OF ALHAMBRA, a municip-  
al corporation; CITY OF ARCADIA, a  
municipal corporation; CITY OF AZUSA, a  
municipal corporation; CITY OF COVINA, a  
municipal corporation; CITY OF EL MONTE,  
a municipal corporation; CITY OF GLENDORA,  
a municipal corporation; CITY OF MONROVIA,  
a municipal corporation; CITY OF MONTEREY  
PARK, a municipal corporation; CITY OF  
SOUTH PASADENA, a municipal corporation;  
BALDWIN PARK COUNTY WATER DISTRICT, a  
county water district; and SAN GABRIEL  
COUNTY WATER DISTRICT, a county water  
district,

Defendants,

JUDGMENT

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER

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DISTRICT, a municipal water district, and )  
CALIFORNIA DOMESTIC WATER COMPANY, a )  
corporation, )  
Intervenors. )

---

The original complaint herein was filed by Plaintiffs on May 12, 1959, and an amended complaint was filed herein on June 8, 1961. Each Defendant in this action filed an answer to the amended complaint denying the material allegations therein. On \_\_\_\_\_, 1964, and \_\_\_\_\_, 1964, respectively, Upper San Gabriel Valley Municipal Water District, a municipal water district, and California Domestic Water Company, a corporation, intervened in the action as Defendants. On \_\_\_\_\_, 1964, there was filed herein a Stipulation for Judgment signed by all of the parties to this action.

After due examination and consideration of the pleadings, said Stipulation for Judgment and other documents and papers on file herein, it appears to the Court that:

(a) In bringing and maintaining this action, plaintiff Central Basin Municipal Water District, a municipal water district, has done so as a representative of and for the benefit of all owners of water rights within, all owners of land within, and all inhabitants of, the district, except to the extent that defendant California Domestic Water Company is representing itself.

(b) In intervening in this action, defendant Upper San Gabriel Valley Municipal Water District, a municipal water district, has done so as representative of and for the benefit of all owners of water rights within, all owners of land within, and all inhabitants of, the district, except to the extent that other Defendants who are within the district are representing themselves.

1 (c) There is a need for a physical solution to the  
2 complex water problems which have given rise to this action.

3 (d) The physical solution embodied in this Judgment  
4 is a feasible, equitable and just resolution of the issues  
5 presented by the amended complaint and answers thereto on file  
6 herein, and it will bring about a fair division of the water  
7 supply of the San Gabriel River System between Upper Area and  
8 Lower Area, as those terms are hereinafter defined.

9 (e) On the basis of the Stipulation for Judgment filed  
10 herein and the consent of all Plaintiffs and Defendants it is in  
11 the interests of justice and in furtherance of the water policy  
12 of the State of California to proceed without trial and to  
13 make and enter this Judgment.

14 Now, therefore, it is hereby ORDERED, ADJUDGED AND  
15 DECREED:

16 JURISDICTION 1. The Court has jurisdiction of the subject  
17 matter of this action and of the Upper Area  
18 Parties and Lower Area Parties, as those terms are  
19 hereinafter defined.

20 EXHIBITS 2. The following Exhibits marked A and B, are  
21 attached to this Judgment and made a part hereof:

22 (a) Exhibit A -- Map entitled "Rio Hondo and  
23 San Gabriel River in Vicinity of Whittier  
24 Narrows Dam".

25 (b) Exhibit B -- Engineering Appendix.

26 DEFINITIONS 3. As used in this Judgment, the following terms  
27 shall have the meanings assigned to them:

28 (a) Central Municipal -- Central Basin  
29 Municipal Water District.

30 (b) Upper District -- Upper San Gabriel  
31 Valley Municipal Water District.

32 (c) Lower Area Parties -- the Plaintiffs, and

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all persons, firms and corporations, public or private, who are represented by Central Municipal.

(d) Upper Area Parties -- the Defendants, and all persons, firms and corporations, public or private, who are represented by Upper District.

(e) Upper Area -- the area (exclusive of the Raymond Basin and the portion of San Gabriel Mountains tributary thereto) wherein surface and subsurface waters are tributary to Whittier Narrows upstream from the common boundary of Upper District and Central Municipal through Whittier Narrows.

(f) Lower Area -- the area which lies downstream from the common boundary of Central Municipal and Upper District through Whittier Narrows and which is included within the incorporated limits of the Plaintiffs.

(g) Whittier Narrows -- a gap between Merced Hills and Puente Hills shown on Exhibit A.

(h) Montebello Forebay -- the area designated as such on Exhibit A.

(i) Export to Lower Area -- water diverted from surface streams in Upper Area or pumped or developed from underground sources in Upper Area, and in either case conveyed by conduit through Whittier Narrows.

(j) Subsurface Flow -- all water which passes as ground water through Whittier Narrows at the "narrowest section" as shown on Exhibit A.

1 (k) Surface Flow -- all water other than  
2 Export to Lower Area and Subsurface Flow,  
3 which passes from Upper Area to Lower Area  
4 through Whittier Narrows.

5 (1) Usable Water -- all Surface Flow, Subsur-  
6 face Flow and Export to Lower Area, but  
7 excluding:

8 (1) that portion of Surface Flow, if any,  
9 which crosses the southerly boundary of  
10 Montebello Forebay as surface runoff less  
11 the amount of Surface Flow which has been  
12 caused to flow out of Montebello Forebay  
13 as surface runoff by any spreading of  
14 water in Montebello Forebay by or on behalf  
15 of Lower Area Parties, or any of them;

16 (2) water imported by or on behalf of Lower  
17 Area Parties from outside of the watershed  
18 of the San Gabriel River System;

19 (3) Reclaimed Water, as defined in subpara-  
20 graph (o) herein, provided, however, that  
21 Reclaimed Water (other than that reclaimed  
22 by or on behalf of Lower Area Parties)  
23 which is percolated and commingled with  
24 ground water in Upper Area shall be deemed  
25 Subsurface Flow, Surface Flow, or Export to  
26 Lower Area as the case may be, when and if  
27 it passes through Whittier Narrows;

28 (4) that portion, if any, of Export to  
29 Lower Area which in any Water Year after  
30 September 30, 1966, exceeds 23,395 acre-  
31 feet;

32 (5) Make-up Water, as defined in subpara-

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graph (m) herein; and  
(6) any water whether flowing on the surface or beneath the surface of the ground which has passed any of the points of surface measurement in Whittier Narrows shown on Exhibit B and prior to its passing from Upper Area to Lower Area is intercepted and returned upstream by conduit or otherwise so that it could again pass any such points of measurement.

(m) Make-up Water -- water of usable quality for ground water recharge required to be delivered to Lower Area under terms of paragraph 5 of this Judgment.

(n) Water Year -- October 1 through the following September 30.

(o) Reclaimed Water -- water reclaimed from sewage generated in the watershed of the San Gabriel River System above Whittier Narrows.

DECLARATION OF RIGHT

4. Lower Area Parties have rights in the water supply of the San Gabriel River System. The nature and extent of such rights is not known; however, Lower Area Parties and all other persons downstream from Whittier Narrows who receive water from the San Gabriel River System or have rights in and to such water, shall have, as against Upper Area Parties and all other pumpers of water in the San Gabriel Valley, a right to receive from Upper Area an average annual usable supply of ninety-eight thousand four hundred fifteen (98,415) acre-feet of water over a long-term period of normal rainfall derived as set forth in Exhibit B, consisting

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of Surface Flow, Subsurface Flow, Export to Lower Area and Make-up Water. If in the future a court of competent jurisdiction shall decree that any person downstream from Whittier Narrows within Central and West Basin Water Replenishment District who is not bound by this Judgment, shall have, as against Upper Area Parties and substantially all other pumpers in the San Gabriel Valley, a right to receive from Upper Area a stated amount of usable supply consisting of Surface Flow, Subsurface Flow, Export to Lower Area or Make-up Water, which right arose out of and is based upon the ownership of land or the production of water downstream from Whittier Narrows and within Central and West Basin Water Replenishment District, then and in that event the stated amount of such right so decreed shall not increase the declared rights as set forth in this paragraph 4.

PHYSICAL SOLUTION

5. In recognition of the complexities of annual supply and demand and variations in the components thereof, the Court hereby declares the following physical solution to be a fair and equitable basis for satisfaction of the declared right set forth in paragraph 4 hereof. Compliance with this paragraph 5 shall constitute full and complete satisfaction of said declared right.

AVERAGE ANNUAL ENTITLEMENT

(a) It is determined that the amount of Lower Area average annual entitlement to Usable Water is ninety-eight thousand four hundred fifteen (98,415) acre-feet.

BASIS OF ANNUAL ENTITLEMENT

(b) The outflow of water from Upper Area through Whittier Narrows to Lower Area has

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varied from year to year and will vary from year to year in the future depending on changing conditions of supply and demand; and as to any Water Year, the average annual rainfall for the San Gabriel Valley during the ten (10) consecutive Water Years ending with that Water Year, is a reasonable basis for determining the entitlement of Lower Area to Usable Water for such Water Year.

DETERMINATION OF RAINFALL

(c) The rainfall in each Water Year for the San Gabriel Valley shall be determined by application of the procedures described in Exhibit B.

RAINFALL ADJUSTMENT TABLE

(d) The quantity of water which Lower Area is entitled to receive in any Water Year (hereinafter called Lower Area Annual Entitlement) shall be determined in accordance with the following table, except that no determination of Lower Area Annual Entitlement shall be made for the last year of any Long-term Accounting Period as hereinafter defined.

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TABLE A  
LOWER AREA ANNUAL ENTITLEMENT  
BASED ON 10-YEAR AVERAGE RAINFALL  
FOR SAN GABRIEL VALLEY

(In Acre-feet)

Inches of Rain-fall	0	.1	.2	.3	.4	.5	.6	.7	.8	.9
14	64,200	64,900	65,700	66,500	67,200	68,000	68,700	69,500	70,300	71,100
15	71,800	72,600	73,400	74,100	74,900	75,600	76,400	77,200	77,900	78,700
16	79,500	80,200	81,000	81,800	82,600	83,300	84,000	84,800	85,600	86,400
17	87,100	87,900	88,700	89,400	90,200	91,000	91,500	92,500	93,200	94,000
18	94,800	95,300	96,200	96,900	97,600	98,300	98,800	99,500	100,100	100,800
19	101,400	102,000	102,700	103,300	103,900	104,500	105,100	105,700	106,300	107,000
20	107,600	108,200	108,800	109,400	110,100	110,700	111,300	111,900	112,500	113,100
21	113,700	114,300	115,000	115,600	116,200	116,800	117,400	118,100	118,600	119,300
22	119,900	120,400	121,000	121,600	122,200	122,700	123,300	123,900	124,400	125,000
23	125,500	126,100	126,700	127,200	127,800	128,400	128,900	129,500	130,100	130,600
24	131,200	131,700	132,200	132,700	133,100	133,700	134,100	134,700	135,100	135,600

DETERMINATION OF ACCRUED DEBIT OR CREDIT

(e) The difference between the aggregate of water entitlements determined as provided in this Judgment and the aggregate of Usable Water and delivered Make-up Water shall be computed as of the end of each Water Year. Any excess of water entitlements over the quantity of Usable Water and Make-up Water received by Lower Area after September 30, 1963, is hereinafter referred to as Accrued Debit of Upper Area. Any excess of Usable Water and Make-up Water received by Lower Area after September 30, 1963, over water entitlements, is hereinafter referred to as Accrued Credit of Upper Area.

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ACCRUED  
DEBIT

(f) If at the end of any Water Year it is determined pursuant to subparagraph (e) of this paragraph 5 that there is an Accrued Debit of Upper Area, then Upper District shall cause Make-up Water to be delivered to Lower Area during the following Water Year in an amount not less than the sum of (1) one-third of such Accrued Debit of Upper Area, and (2) that portion, if any, of such Accrued Debit of Upper Area over 25,000 acre-feet which remains after deducting said one-third. If Upper District shall fail to deliver Make-up Water as next above provided and Plaintiffs shall have diligently pursued their legal and equitable remedies to cause Upper District to so deliver, and either: (1) it shall be finally determined that Upper District is not obligated to so deliver, or (2) it shall appear that Upper District will not thereafter deliver Make-up Water, then Defendants and any successor or successors in interest by title to a Defendant's water right in Upper Area shall be obligated to so deliver Make-up Water. The provisions of this paragraph are subject to the provisions of paragraph 5(h) below.

ACCRUED  
CREDIT

(g) If at the end of any Water Year it is determined pursuant to subparagraph (e) of this paragraph 5 that there is an Accrued Credit of Upper Area, then there shall be no obligation to deliver Make-up Water to Lower Area during the following Water Year.

1 LONG-TERM  
2 ACCOUNTING

3 (h) Following September 30, 1963, a Long-term  
4 Accounting shall be made from time to time but  
5 not sooner than at the end of 15 Water Years,  
6 nor later than 25 Water Years after September  
7 30, 1963, or after the last such accounting,  
8 whichever is later. A Long-term Accounting  
9 shall be made sooner than said 25-year period  
10 whenever the average annual rainfall in the  
11 San Gabriel Valley for a period of 15 Water  
12 Years or more after September 30, 1963, or  
13 after the last such accounting, whichever is  
14 later, is at least 18 inches but not more than  
15 19 inches.

16 In making such Long-term Accounting for any  
17 such period (herein called Long-term  
18 Accounting Period), the aggregate of all  
19 Usable Water and Make-up Water received by  
20 Lower Area during such period shall be deter-  
21 mined and (a) there shall be deducted from said  
22 aggregate the amount of Make-up Water, if any,  
23 delivered during such period by reason of the  
24 existence of an Accrued Debit of Upper Area  
25 at the end of the immediately preceding Long-  
26 term Accounting Period, or (b) there shall be  
27 added to said aggregate the amount of any  
28 Accrued Credit of Upper Area determined to  
29 exist at the end of the immediately preceding  
30 Long-term Accounting Period. The net  
31 aggregate amount of Usable Water and Make-up  
32 Water so computed shall be compared to the  
result to be obtained by (1) multiplying the  
98,415 acre-feet of water to be received by

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Lower Area as its average annual usable supply by the number of Water Years in the Long-term Accounting Period, and (2) adjusting the product by the percentage by which the average annual rainfall (to the nearest one hundredth of an inch) for the Long-term Accounting Period involved exceeds or is less than 18.52 inches. (i.e.:

$$98,415 \times (\text{number of Water Years in Period}) \times \frac{(\text{average rainfall for the Period})}{18.52} .)$$

If as a result of such comparison it is determined that there is a deficiency in the net aggregate amount of Usable Water and Make-up Water received during the Long-term Accounting Period, then such deficiency shall be compensated in the following Water Year by delivery of Make-up Water to Lower Area in the manner and by the means provided herein. If it is determined as a result of such comparison that there is an excess of net aggregate Usable Water and Make-up Water received, then the amount of such excess shall be carried forward as an Accrued Credit of Upper Area.

MAKE-UP WATER DELIVERY

(i) Make-up Water which Defendants are obligated to deliver through Upper District may be delivered by any one or more of the following means:

SURFACE FLOW DELIVERY

(1) By causing water other than Reclaimed Water to flow on the surface into Montebello Forebay by any means and from any source, provided that such deliveries shall

1 be at such rates or flows and at such times  
2 as may be scheduled by the Watermaster.

3 RECLAIMED WATER CREDIT

4 (2) By paying to Central Municipal for  
5 the benefit of all Lower Area Parties the  
6 total amount or any portion of the total  
7 amount which Central and West Basin Water  
8 Replenishment District or any Plaintiff  
9 shall have expended in reclaiming water or  
10 for the purchase of Reclaimed Water in the  
11 preceding Water Year, and which water when  
12 so reclaimed or purchased shall have been  
13 passed through Whittier Narrows to Lower  
14 Area. Upon written request made by Upper  
15 District not later than three months after  
16 the end of a Water Year, Central Municipal  
17 shall give a written notice to Upper District  
18 and the Watermaster of the total number of  
19 acre-feet of such Reclaimed Water so  
20 reclaimed or purchased during the preceding  
21 Water Year and of the cost per acre-foot  
22 therefor at the existing Whittier Narrows  
23 Water Reclamation Plant for reclamation of  
24 waste water, and at any future additions  
25 thereto, and payment therefor at said cost,  
26 or costs, may be made not later than one  
27 year after receipt of such written notice.  
28 Such payment shall be made for the total  
29 production of Reclaimed Water from the  
30 existing plant in the preceding Water Year  
31 before Upper District shall be entitled to  
32 make payment for all, or any portion of,

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Reclaimed Water produced in that year by any future addition to that plant. Such payment by Upper District on behalf of Defendants shall be deemed a delivery of Make-up Water equal to the quantity of Reclaimed Water for which the expenditure of a like sum would have paid at the cost, or costs, per acre-foot so paid for such Reclaimed Water. In no event, however, shall any payment by Upper District under this subparagraph (i)(2) be deemed a delivery of Make-up Water in excess of 14,735 acre-feet in any Water Year during which the amount of Make-up Water required to be furnished by Upper Area is available to it at ground water replenishment rates for delivery to Lower Area, except with the prior written consent of Plaintiffs.

DIRECT DELIVERY

(3) By delivering, or causing to be delivered, water to any of Lower Area Parties with consent of Plaintiffs for use in Lower Area.

WATER RIGHTS BOUND

(j) It is further determined and adjudicated that the obligations provided above in subparagraphs (f) and (h) of this paragraph 5 for each Defendant shall constitute and be a servitude upon the existing water rights of each Defendant in and to the water supply of the San Gabriel River System upstream from Lower Area and shall run with and forever bind said water rights for the benefit of the water

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TRANSFER OF  
WATER RIGHTS

rights of Lower Area Parties.

(k) If any Defendant, other than Upper District, shall desire to transfer all or any of its said water rights to a person, firm or corporation, public or private, who or which is not then bound by this Judgment as a Defendant, such Defendant shall as a condition to being discharged as hereinafter provided cause such transferee to appear in this action and file a valid and effective express assumption of the obligations imposed upon such Defendant under this Judgment as to such transferred water rights. Such appearance and assumption of obligations shall include the filing of a designation of the address to which shall be mailed all notices, requests, objections, reports and other papers permitted or required by the terms of this Judgment.

If any Defendant shall have transferred all of its said water rights and each transferee not theretofore bound by this Judgment as a Defendant shall have appeared in this action and filed a valid and effective express assumption of the obligations imposed upon such Defendant under this Judgment as to such transferred water rights, such transferring Defendant shall thereupon be discharged from all obligations hereunder. If any Defendant other than Upper District shall cease to own any rights in and to the water supply of the San Gabriel River System upstream from Lower Area, and shall have caused the appearance

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and assumption provided for in the third preceding sentence with respect to each voluntary transfer, then upon application to this Court and after notice and hearing such Defendant shall thereupon be relieved and discharged from all further obligations hereunder. Any such discharge of any Defendant hereunder shall not impair the aggregate rights of Lower Area Parties or the responsibility hereunder of the remaining Defendants or any of the successors.

WATERMASTER PROVISIONS

WATERMASTER APPOINTMENT

6. A Watermaster comprised of three persons to be nominated as hereinafter provided shall be appointed by and serve at the pleasure of and until further order of this Court. One shall be a representative of Upper Area Parties nominated by and through Upper District, one shall be a representative of Lower Area Parties nominated by and through Central Municipal, and one shall be jointly nominated by Upper District and Central Municipal. If a dispute arises in choosing the joint appointee, the Court shall make the appointment. If Central Municipal or Upper District shall at any time or times nominate a substitute appointee in place of the appointee last appointed to represent Lower Area Parties, in the case of Central Municipal, or to represent Upper Area Parties, in the case of Upper District, or if Central Municipal and Upper District shall at any time or times jointly nominate a substitute appointee in place of the joint appointee last appointed,

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POWERS  
AND  
DUTIES

such substitute appointee shall be appointed by the Court in lieu of such last appointee or joint appointee. Each such nomination shall be made in writing, served upon the other parties to this action and filed with the Court. The Watermaster when so appointed shall administer and enforce the provisions of this Judgment and the instructions and subsequent orders of this Court.

7. The Watermaster shall have the following powers and duties and shall take all steps necessary to make the following determinations for each Water Year promptly after the end of such Water Year:

- (a) the amount of Surface Flow,
- (b) the amount of Subsurface Flow,
- (c) the amount of Export to Lower Area,
- (d) the amount of water which passed as Surface Flow or Subsurface Flow across the boundary between Upper Area and Lower Area through Whittier Narrows and which was imported by or on behalf of Lower Area Parties from outside of the watershed of the San Gabriel River System above Whittier Narrows,
- (e) the amount and quality of Reclaimed Water reclaimed by or on behalf of Lower Area,
- (f) the total amount of Make-up Water delivered to Lower Area, together with the respective amounts delivered by each method specified in paragraph 5 of this Judgment,
- (g) the amount of Usable Water received by Lower Area,
- (h) the amount of local storm inflow, originating in Lower Area, to the channel of

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each of Rio Hondo and San Gabriel River within Montebello Forebay,

(i) the surface outflow from Montebello Forebay in the channel of each of the Rio Hondo and San Gabriel River,

(j) the number of inches of depth of average rainfall in the San Gabriel Valley,

(k) the average annual rainfall in the San Gabriel Valley for the ten consecutive Water Years just ended,

(l) Lower Area Annual Entitlement or the entitlement for the Long-term Accounting Period, determined pursuant to subparagraph (d) or (h), respectively, of paragraph 5 of this Judgment,

(m) Accrued Debit of Upper Area, if any, or Accrued Credit of Upper Area, if any, as it exists at the end of such Water Year, and

(n) the amount, if any, of Make-up Water which Upper District is obligated to deliver during the following Water Year.

DETERMINATIONS  
TO BE BASED ON  
EXHIBIT B

8. Each of the above required determinations shall be based on and conform to the procedures specified in this Judgment and in Exhibit B insofar as said exhibit provides a procedure.

REPORTS  
MEASUREMENTS  
AND DATA

9. The Watermaster shall report to the Court and to each party in writing at the same time and not more than five months after the end of each Water Year the determinations required by paragraph 7 above.

The Watermaster shall cause to be installed and maintained in good working order such measuring

1 devices in Whittier Narrows and elsewhere as are  
2 necessary or required and not otherwise available  
3 for the making of the determinations required by  
4 paragraph 7 above.

5 The Watermaster shall collect and assemble  
6 from each of the parties, and the parties shall  
7 make available to the Watermaster, such records,  
8 reports and other data as may reasonably be  
9 required in the making of the determinations  
10 required of the Watermaster under paragraph 7 above.  
11 All records, reports and data received, maintained  
12 or compiled by the Watermaster shall be open to  
13 inspection by any party or its representative.

14 OBJECTIONS

15 10. Any party who objects to any determination  
16 made by the Watermaster pursuant to paragraph 7  
17 above, may make such objection in writing to the  
18 Watermaster within thirty (30) days after the  
19 Watermaster gives the required written notice of  
20 such determination. Within thirty (30) days after  
21 expiration of the time within which objection may  
22 be made to such determination, the Watermaster  
23 shall consider all objections thereto and shall  
24 amend, modify or affirm the determination and  
25 give notice thereof at the same time to all parties  
26 and shall file a copy of such final determination  
27 with the Court. If the Watermaster denies any  
28 objection in whole or in part, the party whose  
29 objection was so denied may within thirty (30)  
30 days after service of the final determination  
31 upon it, make written objection to such denial  
32 by filing its objections with the Court after first  
mailing a copy of such objections to the

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Watermaster and to each party, and such party shall bring its objections on for hearing before the Court upon notice and motion and at such time as the Court may direct. If the Watermaster shall change or modify any determination, then any party may within fifteen (15) days after service of such final determination upon it object to such change or modification by following the procedure prescribed above in the case of a denial of an objection to the first determination. If objection to a final determination is filed with the Court as herein provided and brought on for hearing, then such final determination may be confirmed or modified in whole or in part as the Court may deem proper.

CHANGE IN  
METHOD OF  
MEASUREMENT

11. If the Watermaster shall deem it advisable to make a change in the method of making any measurement required under the terms of this Judgment, the Watermaster shall notify all parties of such proposed change, and if within sixty (60) days of such notification no party shall file written objections to such change with the Watermaster, the Watermaster may put such proposed change into effect. If, however, any party files its written objection to the proposed change, it shall by notice of motion filed not later than fifteen (15) days after the expiration of said 60-day period and served on the Watermaster and all parties bring its objection on for hearing before the Court at such time as the Court may direct, and the Court shall rule on whether the Watermaster may make such proposed change.

1 BUDGET

2 12. In addition to the above-specified adminis-  
3 trative powers and duties, the Watermaster shall  
4 prepare a tentative budget for each Water Year,  
5 stating the estimated expense for discharging the  
6 duties of the Watermaster set forth in this  
7 Judgment. The Watermaster shall mail a copy of  
8 the tentative budget to each of the parties at  
9 the same time at least sixty (60) days before the  
10 beginning of each Water Year. However, with  
11 respect to the first Water Year following the  
12 entry of this Judgment, the tentative budget  
13 shall be mailed not later than one hundred and  
14 twenty (120) days from the entry of this Judgment.  
15 If any party has an objection to a tentative  
16 budget, or any suggestions with respect thereto,  
17 that party shall present the same in writing to  
18 the Watermaster within fifteen (15) days after  
19 service of the tentative budget upon it. If no  
20 objections are received, the tentative budget  
21 shall become the final budget. If objections to  
22 the tentative budget are received, the Watermaster  
23 shall, within fifteen (15) days after the expira-  
24 tion of the time for presenting objections,  
25 consider all such objections, prepare a final  
26 budget, and mail a copy thereof to each party,  
27 together with a statement of the amount assessed,  
28 if any, to each party, computed as provided in  
29 paragraph 13. If the Watermaster denies any  
30 objection in whole or in part, the party whose  
31 objection was so denied may, within fifteen (15)  
32 days after service of the final budget upon it,  
make written objection to such denial by filing

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its objections with the Court after first mailing a copy of such objections to each party, and such party shall bring its objections on for hearing before the Court upon notice and motion and at such time as the Court may direct. If the Watermaster makes a change in the tentative budget, then any party may within fifteen (15) days after service of the final budget upon it object to any such change by following the procedure prescribed above in the case of a denial of an objection to the tentative budget. If objection to the final budget is filed with the Court as herein provided and brought on for hearing, then such final budget may be confirmed or adjusted in whole or part as the Court may deem proper.

FEES AND EXPENSES

13. The fees, compensation and expenses of the Watermaster hereunder shall be borne by the parties in the following proportions: 50% by Upper District, 41.2% by Central Municipal, 7.125% by the City of Long Beach, and 1.675% by the City of Compton, or such other division among the Plaintiffs as they may agree upon in writing and file with the Watermaster.

Payment of the amount assessed to a party, whether or not subject to adjustment by the Court as provided in paragraph 12, shall be paid on or prior to the beginning of the Water Year to which the final budget and statement of assessed costs is applicable. If such payment by any party is not made on or before said date, the Watermaster shall add a penalty of 5% thereof to such party's

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statement. Payment required of any party here-  
under may be enforced by execution issued out of  
this Court, or as may be provided by order here-  
inafter made by this Court. All such payments  
and penalties received by the Watermaster shall  
be expended by him for the administration of this  
Judgment. Any money remaining at the end of any  
Water Year shall be available for use in the  
following Water Year.

SUCCESSOR  
OF UPPER  
DISTRICT

14. If a public agency or district shall be  
formed hereafter which shall include the present  
area of Upper District and shall have ability  
equal to or greater than that which Upper District  
now has to perform the obligations under this  
Judgment, and shall appear in this action and  
file a valid and effective assumption of such  
obligations, then Upper District upon application  
to this Court, and after notice and hearing, shall  
thereupon be relieved and discharged from all  
further obligations hereunder.

CONTINUING  
JURISDICTION  
OF THE COURT

15. Full jurisdiction, power and authority is  
retained and reserved by the Court for the purpose  
of enabling the Court upon application of any  
party by motion and upon at least thirty (30)  
days notice thereof, and after hearing thereon  
(i) to make such further or supplemental orders  
or directions as may be necessary or appropriate  
for the construction, enforcement or carrying out  
of this Judgment, and (ii) to modify, amend or  
amplify any of the provisions of this Judgment  
whenever substantial developments affecting the  
physical, hydrological or other conditions dealt

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with herein may, in the Court's opinion, justify or require such modification, amendment or amplification.

If at any time Plaintiffs and at least two-thirds of the Defendants including any two of the cities of Alhambra, Azusa and Monterey Park, shall file with the Court a written stipulation (i) that henceforth in determining any one or more of the component parts of Usable Water received by Lower Area in any Water Year, the Watermaster shall not use the method specified in this Judgment but shall use instead a new, different or altered method as specified and described in such stipulation, and (ii) that such new, different or altered method or methods shall be applied to redetermine the average annual amount of Usable Surface Flow, Subsurface Flow and Export to Lower Area which Lower Area received each Water Year during the period October 1, 1934 to September 30, 1959, referred to as the base period, and that on the basis of such redetermination the Court may modify paragraphs 4 and 5 of this Judgment to establish a new and different water entitlement and yearly adjustment thereto which shall thereafter control, then and in that event, after hearing pursuant to motion and notice to all parties, held at such time as the Court may direct, the Court may deny the motion or it may grant it and (a) approve the future use of the stipulated new, different or altered method or methods, by the Watermaster, and (b) by use of the stipulated new, different or altered method or

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REPORT OF  
TRANSFER  
OF WATER  
RIGHTS

methods, redetermine the average annual amount of Usable Surface Flow, Subsurface Flow and Export to Lower Area received each Water Year during the base period, and on the basis thereof modify paragraphs 4 and 5 of this Judgment to provide for a new and different water entitlement and yearly adjustment thereto, which modifications shall be effective and control commencing with the Water Year following the entry of the order so modifying paragraphs 4 and 5.

16. Every transfer of any of those water rights of Defendants which are the subject of Paragraph 5(j) of this Judgment, whether such transfer is voluntary or involuntary, shall be reported promptly in writing by the transferor to the Watermaster; and the Watermaster shall give prompt written notice of such transfer to each party and to each transferee involved in every other transfer of any of those water rights. Such report by the transferor and notice by the Watermaster shall contain the following information as to each such transfer:

- (a) The identity of the transferor;
- (b) The identity of the transferee;
- (c) The effective date of the transfer;
- (d) A brief description of the document by which such transfer is made, and the recording data, if any;
- (e) A statement as to whether the transfer was voluntary or involuntary;
- (f) A statement whether or not after such transfer the transferor still has or

1 claims to have any of the water rights  
2 which are the subject of Paragraph 5(j)  
3 of this Judgment.

4 NOTICES

5 17. All notices, requests, objections, reports  
6 and other papers permitted or required by the  
7 terms of this Judgment shall be given or made by  
8 written document and shall be served by mail on  
9 each party and on each transferee of water rights  
10 who has appeared and filed the assumption of  
11 obligations required by paragraph 5(k) of this  
12 Judgment, and where required or appropriate, on  
13 the Watermaster. For all purposes of this  
14 paragraph the mailing address of each party shall  
15 be that set forth below its signature to the  
16 Stipulation for Judgment, and the mailing address  
17 of each transferee of water rights shall be that  
18 set forth in the appearance and assumption of  
19 obligations required by paragraph 5(k) of this  
20 Judgment, until changed as provided below. No  
21 further notice of any kind as to any matter  
22 arising hereunder, including notice to attorneys  
23 of record for any party or such transferee, need  
24 be given, made or served.

25 If any party or any such transferee of water  
26 rights shall desire to change its designation of  
27 mailing address, it shall file a written notice  
28 of such change with the clerk of this court and  
29 shall serve a copy thereof by mail on the  
30 Watermaster. Upon the receipt of any such notice  
31 the Watermaster shall promptly give written  
32 notice thereof to each party and to each  
transferee of water rights.

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EFFECTIVE  
DATE

18. The rights decreed and the obligations imposed by this Judgment shall be effective October 1, 1963, and shall accrue from that date.

COSTS

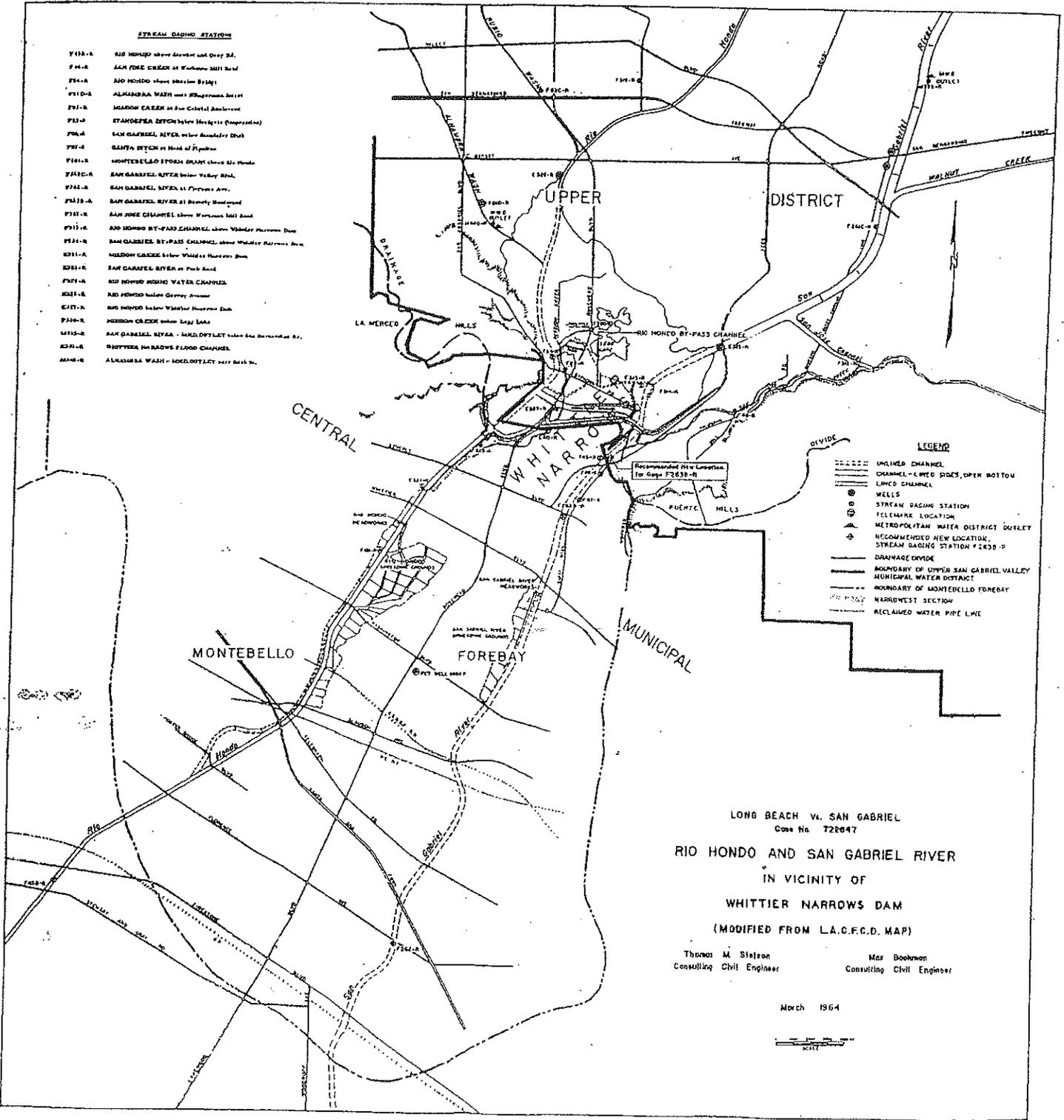
19. None of the parties shall recover any costs from any other party.

Dated: \_\_\_\_\_, 1964.

\_\_\_\_\_  
Judge

**STREAM GAGING STATION**

- F113-A RIO HONDO above Forest and Oak Driv. St.
- F114-A SAN JOSE CREEK at Whittier Mill Dam
- F115-A RIO HONDO above Whittier Mill Dam
- F116-A ALHAMBRA WASH and Elmerman Driv.
- F117-A MADON CREEK at San Gabriel Reservoir
- F118-A STANISLAUS RIVER below Whittier Dam
- F119-A SAN GABRIEL RIVER below Whittier Dam
- F120-A SANTA RITA at Head of Canyon
- F121-A MONTEBELLO STORM GRANT above Rio Hondo
- F122-A SAN GABRIEL RIVER below Valley Blvd.
- F123-A SAN GABRIEL RIVER at Phoenix Ave.
- F124-A SAN GABRIEL RIVER at Beverly Boulevard
- F125-A SAN JOSE CHANNEL above Whittier Mill Dam
- F126-A RIO HONDO BY-PASS CHANNEL above Whittier Dam
- F127-A SAN GABRIEL BY-PASS CHANNEL above Whittier Dam
- F128-A MADON CREEK below Whittier Dam
- F129-A SAN GABRIEL RIVER at Park Blvd.
- F130-A RIO HONDO below Water Channel
- F131-A RIO HONDO below Quarry Avenue
- F132-A RIO HONDO below Whittier Dam
- F133-A MADON CREEK below Long Dam
- F134-A SAN GABRIEL RIVER - LAND OFFSET below San Gabriel Dam
- F135-A WHITTIER NARROWS FLOOD CHANNEL
- F136-A ALHAMBRA WASH - WHELFLOTLEY Mill Dam St.

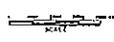


LONG BEACH vs. SAN GABRIEL  
 Case No. 728647  
**RIO HONDO AND SAN GABRIEL RIVER**  
 IN VICINITY OF  
**WHITTIER NARROWS DAM**  
 (MODIFIED FROM L.A.C.F.C.D. MAP)

Thomas M. Stejron  
 Consulting Civil Engineer

Max Bookman  
 Consulting Civil Engineer

March 1964



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LONG BEACH v. SAN GABRIEL

ENGINEERING APPENDIX

EXHIBIT B

1 ENGINEERING APPENDIX

2 -----  
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4

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1 ENGINEERING APPENDIX

2  
3 INTRODUCTION

4 Pursuant to the declaration of rights contained in  
5 paragraph 4 of the Judgment and the physical solution  
6 contained in paragraph 5 of the Judgment, the purpose of this  
7 exhibit is to establish the basis for calculations and  
8 measurements to provide for operation of the Judgment in the  
9 future.

10 Unless otherwise provided in this exhibit, all terms  
11 used herein are used in the same sense as defined or used in  
12 the Judgment.

13 The derivation of the Lower Area average annual  
14 entitlement is based upon the data presented herein covering  
15 the base period. However, if a more accurate method of  
16 determining Subsurface Flow is developed at some future time,  
17 it will be acceptable for use in carrying out the terms of this  
18 Judgment so long as it can also apply to the base period and to  
19 the years over which the Judgment shall have operated to that  
20 time.

21  
22 I. DERIVATION OF LOWER AREA AVERAGE ANNUAL ENTITLEMENT

23 The Lower Area average annual entitlement is  
24 stipulated in paragraph 5 (a) of the Judgment to be 98,415  
25 acre-feet. It was derived from three components of water  
26 supply over the base period, October 1, 1934, through  
27 September 30, 1959. Said components were: (1) Usable Surface  
28 Flow, (2) Subsurface Flow, and (3) Export to Lower Area.

29  
30 A. Usable Surface Flow

31 For the base period, Usable Surface Flow was  
32 calculated as that portion of Surface Flow which percolated

1 in Montebello Forebay, less the calculated amounts of Lower Area  
 2 Replenishment Water (hereby defined as water imported from outside  
 3 of the watershed of the San Gabriel River system by or on behalf  
 4 of Lower Area Parties for replenishment of Montebello Forebay  
 5 and passing from Upper Area to Lower Area), and less one-half  
 6 of the Raymond Basin sewage discharged in Upper Area from the  
 7 Tri-City Sewage Treatment Plant.

8 Table 1 presents the calculation of Usable Surface  
 9 Flow during the base period. The average annual quantity was  
 10 calculated to be 51,620 acre-feet. Its derivation is summarized  
 11 in the following tabulation.

	Average annual quantity in acre- feet
14 1. Surface Flow	108,560
15 2. Montebello Forebay surface 16 outflow	45,000
17 3. Local storm inflow within 18 Montebello Forebay	<u>1,660</u>
19 4. Portion of Surface Flow 20 leaving Montebello 21 Forebay (2 minus 3)	43,340
22 5. Surface Flow percolated in 23 Montebello Forebay 24 (1 minus 4)	65,220
25 6. Lower Area Replenishment Water 26 (Colorado River water) 27 passing through Whittier 28 Narrows	11,870
29 7. One-half of Raymond Basin 30 sewage discharged in 31 Upper Area	1,730
32 8. Usable Surface Flow (5 minus 6 minus 7)	51,620

TABLE  
OF US.  
URFACE

(1) Water Year	(2) Rondo -64	(3) Rio R. Bypa F-3	(4) Su F-3	(5) Flo Canyon	(6) abstfel num water	(7) F +576	(8) Monteb Gabri o River F-26	(9) Monteb Gabri o River F-26	(10) by sur low	(11) Sello Drain SI	(12) ow of face low robby -11	(13) as Flex blated in abstfel (-12)	(14) olorado ater pa mitter N	(15) One- Basins in	(16) Usable urface Ft. 13-14-71
1934-37	9,230			390	2,410	170	4.7	10,700	50	50	9,050	52,120			1,470
37	0,700			70	6,140	720	1.7	5,970	99	99	5,080	41,640			1,905
38	0,900			260	7,750	750	21.0	47,870	70	70	5,700	64,650			1,185
39	9,330			510	9,120	660	60.1	132,100	50	50	0,050	103,610			1,650
40	0,650			200	8,380	560	2.1	12,680	80	80	1,100	74,460			1,490
1939-41	7,660			110	9,510	490	1.5	6,750	90	90	5,860	67,630			1,645
41	0,650			1,070	2,440	280	75.7	169,040	90	90	4,950	97,330			1,125
42	8,810			80	3,770	400	13.4	20,300	60	60	9,340	72,060			1,920
43	9,470			150	2,670	700	186.4	124,330	80	80	5,750	73,950			1,715
44	1,390			220	1,420	880	79.5	106,750	90	90	4,360	87,520			1,975
1944-45	2,300			70	7,130	520	26.1	34,570	70	70	3,800	73,720			1,230
45	3,160			70	1,580	440	16.4	27,750	70	70	6,890	83,850			1,915
46	8,410			110	6,790	540	27.1	43,680	50	50	2,330	77,210			1,425
47	5,370			20	0,970	030	3.10	3,510	10	10	2,600	56,430			1,563
48	1,100			40	3,590	370	1.490	1,490	60	60	630	34,740			1,740
1949-51	2,280			110	1,780	950	1.780	2,840	40	40	1,600	31,350			1,350
51	7,880			0	8,420	000	0	780	90	90	-210	23,110			1,110
52	4,570			530	6,800	990	24.2	50,290	30	30	6,960	51,030			1,030
53	6,120			50	2,350	730	4.330	4,430	30	30	3,000	41,730			1,730
54	3,390			100	8,130	430	3.7	14,550	90	90	2,360	40,070	15.61		1,380
1954-57	1,350			70	4,630	880	1.0	9,000	10	10	7,790	31,090	23.11		1,960
57	6,180			150	8,930	560	10.3	24,900	10	10	2,790	39,770	42.87		1,100
58	6,840			50	2,220	350	1.3	6,030	20	20	4,910	56,440	51.87		1,570
59	9,320			540	1,320	140	23.5	54,220	50	50	0,970	78,170	103.91		1,270
1958-61	9,800			10	9,790	520	3.1	7,020	30	30	5,800	77,720	59.35		1,330
TOTAL	6,860			4,980	8,040	060	586.1	124,970	10	10	3,560	30,500	296.81		3,385
Average	3,870			2,700	1,120	560	23.4	45,000	60	60	3,340	65,220	11.67		1,620

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B. Subsurface Flow

The State of California, Department of Water Resources, published in April 1962, Appendix B, "Safe Yield Determinations", of Bulletin No. 104, a report entitled "Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County". That report included estimates of the seasonal Subsurface Flow through Whittier Narrows for each Water Year during the period 1934-35 through 1956-57. By applying the same methods of computation, the estimates have been extended through the Water Year 1958-59 and a 25-year average of 28,400 acre-feet derived.

Table 2 sets out the Subsurface Flow for each Water Year in the base period and the average annual Subsurface Flow during the base period.

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TABLE 2  
SUBSURFACE FLOW  
DURING BASE PERIOD

<u>Water Year</u>	<u>Acre-Feet</u>
1934-35	33,500
36	33,500
37	31,100
38	25,600
39	25,000
1939-40	23,900
41	23,300
42	21,800
43	21,900
44	23,700
1944-45	23,500
46	23,100
47	22,400
48	25,700
49	30,300
1949-50	34,000
51	32,800
52	32,100
53	32,800
54	33,200
1954-55	33,600
56	32,200
57	32,600
58	30,500
1958-59	<u>27,800</u>
TOTAL	709,900
Average	28,400

1 C. Export to Lower Area

2                   During the base period there were a number of water  
3 producers or water service agencies which produced water by  
4 surface diversions or wells in Upper Area and exported it to  
5 Lower Area. At the present time, and for the past several  
6 years, all such water has been pumped from wells in Upper Area.

7                   There are four water service agencies which  
8 currently so export water. They are the Rincon Ditch Company,  
9 California Domestic Water Company, Suburban Water Systems, and  
10 the City of Whittier.

11                   Table 3 sets forth Export to Lower Area for each  
12 Water Year during the base period and the average annual Export  
13 to Lower Area during the base period.

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TABLE 3  
EXPORT TO LOWER AREA  
DURING BASE PERIOD

<u>Water Year</u>	<u>Acre-Feet</u>
1934-35	15,049
35-36	21,644
36-37	22,668
37-38	25,151
38-39	27,532
1939-40	22,566
40-41	24,191
41-42	27,514
42-43	30,484
43-44	31,182
1944-45	25,953
45-46	27,456
46-47	29,877
47-48	30,165
48-49	25,515
1949-50	18,363
50-51	21,651
51-52	16,302
52-53	18,141
53-54	18,360
1954-55	18,796
55-56	20,728
56-57	19,686
57-58	22,031
58-59	<u>23,881</u>
TOTAL	584,886
Average	23,395

1 D. Derivation of Lower Area Average Annual Entitlement

2 Table 4 presents the derivation of the Lower Area  
3 average annual entitlement.

4  
5 TABLE 4

6 LOWER AREA AVERAGE ANNUAL ENTITLEMENT

7 (In acre-feet for base period)

8

9 Usable Surface Flow (Table 1)	51,620
10 Subsurface Flow (Table 2)	28,400
11 Export to Lower Area (Table 3)	<u>23,395</u>
12 Sub-total	103,415
13 Stipulated deduction	<u>5,000</u>
14 Lower Area average annual entitlement	98,415

15

16 II. DETERMINATION OF FUTURE LOWER AREA ANNUAL ENTITLEMENT

17 In determining a future Lower Area Annual Entitlement,  
18 as set forth in paragraph 5 (d) of the Judgment, the annual  
19 rainfall for San Gabriel Valley shall be determined in  
20 accordance with procedures set forth below, which are those  
21 presently utilized by the Los Angeles County Flood Control  
22 District. The 90-year (1872-73 through 1961-62) average  
23 rainfall for San Gabriel Valley has been calculated by said  
24 District to be eighteen and fifty-two one-hundredths (18.52)  
25 inches. For purposes of this Judgment, this quantity shall  
26 be the long-term average annual rainfall for San Gabriel Valley  
27 and shall not be subject to change.

28 The arithmetic average of the annual rainfall  
29 recorded at the four precipitation stations listed below shall  
30 constitute the rainfall for San Gabriel Valley for the  
31 respective Water Year.  
32

<u>Station No.</u>	<u>Location</u>
95	114 East First Street, San Dimas
102C	19711 East Valley Blvd., Walnut
108C	119 South Hoyt Avenue, El Monte
610B	City Hall, Pasadena

Table 5 presents the annual rainfall for San Gabriel Valley for the Water Years 1954-55 through 1962-63.

TABLE 5  
ANNUAL RAINFALL FOR SAN GABRIEL VALLEY

<u>Water Year</u>	<u>Rainfall, Inches</u>
1954-55	13.9
56	16.7
57	13.7
58	30.2
59	8.5
1959-60	10.6
61	5.9
62	22.4
63	12.3

The average rainfall in inches for the ten (10) consecutive Water Years ending with the year for which entitlement is being calculated shall be used as the basis for determining Lower Area Annual Entitlement.

Lower Area Annual Entitlements have been computed for 10-year average rainfall in increments of one-tenth (0.1) inch between fourteen (14) and twenty-five (25) inches and are set forth in Table A in paragraph 5 (d) of the Judgment. The following outlines the procedure for determining Lower Area Annual Entitlement from Table A:

- (1) Derive the 10-year average rainfall for San Gabriel Valley to the nearest one-tenth (0.1) inch;
- (2) Enter Table A in left-hand column at whole number of inches of rainfall; and

1 (3) Read horizontally to the vertical column  
2 representing the appropriate tenth of  
3 an inch of rainfall to obtain the  
4 quantity of Lower Area Annual Entitlement  
5 in acre-feet.  
6

7 III. FUTURE MEASUREMENTS

8 It will be necessary to maintain records of measurement  
9 of stream flow, flow in pipelines, rainfall and depth to ground  
10 water at a number of locations. The purpose of this Part III is  
11 to locate and identify those measurement stations and to specify  
12 the manner in which the measurements are to be used in the future  
13 operation of the Judgment. The line through Whittier Narrows  
14 shown on Exhibit A as "narrowest section" is the line at which  
15 accounting shall be made of the water to be received in the  
16 future by Lower Area Parties. The Watermaster shall, insofar as  
17 practicable, utilize measurement data available from existing  
18 sources. When such data are not available the Watermaster may  
19 make such measurements as may be necessary or reasonably required  
20 for the purposes of this Judgment. The Watermaster is hereby  
21 authorized to re-establish, rebuild or replace measuring  
22 stations whenever necessary for the operation of this Judgment.  
23

24 A. Surface Water Measurements and Calculations.

25 There may be several categories of water flowing on  
26 the surface through Whittier Narrows. Among them may be local  
27 stream flow, Lower Area Replenishment Water, Reclaimed Water  
28 and Make-up Water. The Watermaster shall have the responsibility  
29 of determining the quantities of each category of water flowing  
30 through Whittier Narrows in the future.  
31

32 The approximate locations of stream measuring stations  
in and near Whittier Narrows are shown on Exhibit A. The surface

- 1 water measurements and calculations shall include the following:
- 2 1. Measurements of Surface Flow.
- 3 a. Rio Hondo above Mission Bridge,
- 4 Station F64-R.
- 5 b. Mission Creek at San Gabriel
- 6 Boulevard, Station F83-R.
- 7 c. Rio Hondo By-pass Channel,
- 8 Station F313-R.
- 9 d. Whittier Narrows Flood Channel,
- 10 Station E337-R.
- 11 e. Calculation of Sycamore Canyon runoff
- 12 based on annual rainfall to nearest
- 13 inch at Station 170-C as shown on
- 14 Table 6.
- 15 f. San Gabriel River near Parkway Bridge.
- 16 This is to be a new station to replace
- 17 the existing station on San Gabriel
- 18 River at Beverly Boulevard, Station
- 19 F263B-R.
- 20 g. The portion of Reclaimed Water from
- 21 Whittier Narrows Reclamation Plant
- 22 diverted to Rio Hondo.
- 23 2. Measurement of local storm inflow to the channel
- 24 of each of the Rio Hondo and San Gabriel River
- 25 within Montebello Forebay.
- 26 a. Montebello storm drain, Station F181-R.
- 27 b. Calculation of unmeasured local storm
- 28 inflow.
- 29 3. Measurements of diversions to spreading grounds
- 30 Montebello Forebay.
- 31 4. Measurement of surface outflow from Montebello
- 32 Forebay in the channel of each of Rio Hondo and

1 San Gabriel River.

2 a. Rio Hondo above Stewart and Gray  
3 Road, Station F45B-R.

4 b. San Gabriel River at Florence  
5 Avenue, Station F262-R.

6 5. Measurement of Lower Area Replenishment Water  
7 imported to Upper Area from outside the water-  
8 shed of the San Gabriel River system.

9 a. Rio Hondo By-pass Channel,  
10 Station F313-R.

11 b. San Gabriel By-pass Channel,  
12 Station F314-R.

13 c. San Gabriel River MWD Outlet,  
14 Station M335-R.

15 d. Alhambra Wash MWD Outlet,  
16 Station M340-R.

17 e. Any other measuring point or points  
18 in Upper Area at which such replen-  
19 ishment water is released.

20 6. Measurement of total Reclaimed Water from Whittier  
21 Narrows Reclamation Plant reclaimed by or on  
22 behalf of Lower Area Parties.

23 In the event that any of the aforementioned gaging  
24 stations are inoperative for any reason and for any period of  
25 time the Watermaster shall estimate the quantity that would  
26 have been measured at the station had it been operative. The  
27 estimate shall be based on correlation to nearby operative  
28 measuring stations or on other reasonable engineering methods.  
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TABLE 6

RAINFALL - RUNOFF RELATIONSHIP OF SYCAMORE CANYON\*

<u>Annual rainfall, in inches at Precipitation Station No. 170-C</u>	<u>Estimated runoff in acre-feet</u>
6	5
7	10
8	15
9	25
10	35
11	45
12	60
13	75
14	90
15	105
16	125
17	145
18	170
19	200
20	240
21	275
22	315
23	355
24	400
25	445
26	490
27	535
28	580
29	630
30	685

Extrapolate for rainfall values in excess of 30 inches.

\* Located on Westerly side of Whittier Narrows, upstream from dam and downstream from stream gaging Station F64-R. Approximate drainage area is 2.77 square miles.

B. Subsurface Flow

The determination of Subsurface Flow involves certain measurements and procedures which are set forth in this section. In connection with a recent comprehensive study made by the State of California, Department of Water Resources, for Bulletin No. 104, "Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County", estimates were made of Subsurface Flow through Whittier Narrows. The State concluded that a reasonable method of determining Subsurface Flow was by the transmissibility method, which is based on Darcy's Law applied

1 at the location shown on Exhibit A as "narrowest section".

2 Darcy's Law states that  $Q = PIA$ , in which

3  $Q =$  Subsurface Flow

4  $P =$  Permeability, in gallons per day per  
5 square foot under unit hydraulic gradient

6  $I =$  Slope of water table

7  $A =$  Cross-sectional area

8 Under this Judgment calculations shall be made by the  
9 Watermaster for the spring and fall of each year and because of  
10 slight variations due to the nature of the data available,  
11 Subsurface Flow for any one year will be equal to the tri-annual  
12 average of the quantities calculated for the three years ending  
13 with the year of calculation. In this manner, annual Subsurface  
14 Flow shall be based on the average of six calculations, the  
15 first of which shall be the spring of 1962.

16 The elevation of the ground surface at the "narrowest  
17 section" of Whittier Narrows is deemed to be 208 feet above  
18 sea level, and the width of the section is deemed to be 7,900  
19 feet. Water levels fluctuate at Whittier Narrows and the  
20 cross-sectional area of the ground water at Whittier Narrows  
21 will vary with fluctuations in ground water elevation.

22 It should be noted that  $T = PD$ , where  $T =$   
23 transmissibility in gallons per day per foot of width under  
24 unit hydraulic gradient and  $D =$  saturated depth in feet.  
25 Therefore  $PA = TW$  and  $Q = PAI = TWI$ . The product  $TW$  (or  $PA$ )  
26 for the entire cross-sectional area was determined to be  
27  $4,739.5 \times 1,000,000$  gallons per day, or 7,333.6 cfs. The  
28 actual slope of the water table,  $I$ , would then be applied to  
29 the calculated quantity of  $TW$  (or  $PA$ ).

30 The average permeability of the material to a depth  
31 of 100 feet below the ground surface has been determined to  
32 be equal to 2,000 gallons per day per square foot, which is

1 equal to .003095 cubic feet per second per square foot. This  
2 represents the average permeability in the zone of water level  
3 fluctuation.

4 In order to correct for the unsaturated depth, the  
5 equation  $Q = TWI$  is modified to  $Q = (TW - C)I$  where

6  $C = P_1 W d,$

7  $C =$  The flow which would occur in the unsaturated  
8 section if it were saturated, in cubic feet  
9 per second under unit hydraulic gradient.

10  $P_1 =$  Average permeability for a distance of 100  
11 feet below the ground surface.

12  $W =$  The cross-sectional width, or 7,900 feet.

13  $d =$  The distance from the water surface to the  
14 top of the ground, or 208 feet minus ground  
15 water elevation.

16 Utilizing the values of permeability shown above, then

17  $C = 24.45 d,$  in cubic feet per second, for values  
18 of "d" to a depth of 100 feet below the  
19 ground surface.

20 The "effective transmissibility" is equal to the total  
21 transmissibility times the width at the narrowest section minus  
22 C, or,

23  $Tw_e = TW - C$

24  $Tw_e = 7,334 - C,$  in cubic feet per second.

25 Subsurface Flow is equal to the effective transmissi-  
26 bility times the average slope of the water table. The formula  
27 derived from the foregoing, may be stated as follows:

28  $Q = 724 I [7,334 - 24.45 (208 - E)]$

29 Where:  $Q =$  Subsurface Flow in acre-feet per year,

30  $I =$  Average adjusted slope of ground water  
31 surface at narrowest section, and

32  $E =$  Ground water elevation of the water  
33 surface in feet above sea level at the  
34 narrowest cross-section.

35 The detailed steps to be carried out by the Watermaster  
36 are as follows:

- 1 (1) Ground water level contour maps in the vicinity of Whittier  
2 Narrows are drawn on the basis of water level measurements.
- 3 (2) A line representing the narrowest cross-section is drawn on  
4 the ground water contour maps.
- 5 (3) This line is subdivided into four equal lengths.
- 6 (4) The average slope of the water table at each of the three  
7 points within the narrowest section is determined along a line  
8 perpendicular to the ground water contours in the manner hereto-  
9 fore used by the State of California, Department of Water  
10 Resources.
- 11 (5) Adjustment is made to the ground water slope at each of the  
12 three points so that it is perpendicular to the narrowest section  
13 by:
- 14 (a) measuring the angle, in degrees, between the  
15 line representing the narrowest cross-section and  
16 the tangent to the flow line at the narrowest  
17 cross-section,
- 18 (b) applying the sine of that angle to the previously  
19 determined slope to determine the adjusted slope, and  
20 (c) obtaining an average of the three adjusted slopes  
21 to represent the average slope through the narrowest  
22 cross-section.
- 23 (6) The elevation of the water surface at the narrowest cross-  
24 section is determined by interpolating between the ground water  
25 contours.
- 26 (7) The distance to the ground water surface is computed from  
27 the top of the ground by the formula:  $d = 208 - E$ , where E  
28 represents the average water level elevation of the narrowest  
29 cross-section, in feet.
- 30 (8) The correction factors for the transmissibility for the  
31 area from the top of ground to the water surface is computed by  
32 the formula  $C = 24.45 d$ , in cubic feet per second.

1 (9) The effective transmissibility is computed by the formula  
2  $Tw_e = 7,334 - C$ , in cubic feet per second.

3 (10) Subsurface Flow is computed by multiplying the effective  
4 transmissibility by the average adjusted slope.

5 (11) The computed Subsurface Flow, in cubic feet per second,  
6 is converted to acre-feet per year by multiplying it by 724.

7 The selected wells within the vicinity of Whittier  
8 Narrows which have been used for drawing the ground water  
9 contours are as follows:

10	<u>Location No.</u>	<u>State No.</u>
11	2927B	2S 11W 06M01S
12	2927D	06K01S
13	2928	07B01S
14	2936	06A01S
15	2936A	1S 11W 31J03S
16	2938A	2S 11W 07H1S
17	2938D	05N05S
18	2939	08N01S
19	2939B	18B01S
20	2939G	07R01S
21	2947C	-
22	2947F	05L01S
23	2947N	05P01S
24	2948	05N04S
25	2948E	08B02S
26	2948F	08L03S
27	2957H	-

28 The Watermaster shall obtain measurements of ground  
29 water elevations in the spring and fall of each year when they  
30 are at their approximate high and low levels, respectively.  
31 Such measurements may be made at, but need not be limited to,  
32 all of the above listed wells.

33 C. Export to Lower Area

34 If present measuring devices on existing conduits are  
35 inadequate, the Watermaster shall install or cause to be  
36 installed adequate measuring devices to determine the amount of  
37 Export to Lower Area.

1 IV. ACCOUNTING

2 Utilizing the appropriate measurements described in  
3 the previous portion of this Exhibit B, the Watermaster shall  
4 maintain accounts for the determination of Lower Area Annual  
5 Entitlement, the annual amount of Usable Water, Make-up Water  
6 to be delivered, Make-up Water received, the annual total amount  
7 of Usable Water and Make-up Water, the accumulated Lower Area  
8 Annual Entitlements, the accumulated amounts of Usable Water and  
9 Make-up Water received subsequent to September 30, 1963, Accrued  
10 Debit of Upper Area or Accrued Credit of Upper Area, and records  
11 necessary for accomplishing the Long-term Accounting.

12 In maintaining the accounting records listed above,  
13 the Watermaster shall establish the necessary accounting  
14 procedures to accomplish the recordation of data and required  
15 calculations for accomplishment of the provisions set forth in  
16 paragraph 5 of the Judgment.

17  
18 A. Components of Usable Water

19 1. Surface Flow. Surface Flow shall be measured as  
20 set forth in Part III.A. of this exhibit to include all water  
21 other than Export to Lower Area and Subsurface Flow which passes  
22 from Upper Area to Lower Area through Whittier Narrows. When  
23 the new station to be constructed on the San Gabriel River near  
24 Parkway Bridge is completed, it shall replace the gaging station  
25 on the San Gabriel River at Beverly Boulevard, Station F263B-R.  
26 Until such new station is in operation, Surface Flow as  
27 measured at Station F263B-R shall be increased by the amount  
28 of Surface Flow which has percolated or been diverted between  
29 Station F263B-R and the point of maximum rising water. The  
30 Watermaster shall determine the quantity so percolated or  
31 diverted based upon available measurements by the Los Angeles  
32 County Flood Control District.

1                   2. Subsurface Flow. Subsurface Flow shall be  
2 calculated in accordance with the procedures heretofore set  
3 forth.

4                   3. Export to Lower Area. The Watermaster shall  
5 reduce to acre-feet the meter readings on each of the conduits  
6 transporting through Whittier Narrows water diverted from surface  
7 streams in Upper Area or pumped or developed from underground  
8 sources in Upper Area. These quantities shall be used to  
9 determine Export to Lower Area except that after September 30,  
10 1966, Export to Lower Area used for determination of Usable  
11 Water shall not exceed 23,395 acre-feet per year. (Paragraph  
12 3(1) of this Judgment.)  
13

14 B. Calculation of Usable Water

15                   After determining the amounts of Surface Flow, Sub-  
16 surface Flow and Export to Lower Area during a Water Year, as  
17 provided above, the Watermaster, in order to determine the extent  
18 to which such water constitutes the receipt of Usable Water by  
19 Lower Area during such Water Year, shall deduct from the total  
20 of such amounts, the following:

21                   1. Lower Area Replenishment Water. An amount equal  
22 to the total quantity of Lower Area Replenishment Water released  
23 in Upper Area in each Water Year subsequent to September 30,  
24 1963, less such amount, if any, as the Watermaster determines  
25 to be lost due to evaporation or transpiration prior to the  
26 receipt of such water in Lower Area;

27                   2. Reclaimed Water. An amount equal to the total  
28 quantity of Reclaimed Water which is reclaimed by or on behalf  
29 of Lower Area Parties;

30                   3. Make-up Water. An amount equal to the quantity of  
31 Make-up Water delivered to Lower Area during such Water Year,  
32 calculated as hereafter provided, to the extent included in

1 Surface Flow or Export to Lower Area;

2 4. Paragraph 3(1)(6) Water. An amount equal to the  
3 quantity of any water which falls within the scope of paragraph  
4 3(1)(6) of the Judgment; and

5 5. Unusable Surface Flow. An amount equal to the  
6 quantity of Unusable Surface Flow, which is determined by  
7 deducting from the total outflow as measured at Stations F45B-R  
8 and F262-R: (1) Local Storm Outflow and (2) the portion of  
9 Surface Flow which has been caused to pass said stations by  
10 reason of any spreading of water in Montebello Forebay by or on  
11 behalf of Lower Area Parties.

12 Local Storm Outflow is a portion of local storm inflow  
13 originating in Montebello Forebay upstream from said measuring  
14 stations, the amount of which outflow is to be determined as  
15 hereinafter provided. When actual measurements of local storm  
16 inflow are not available, the amount thereof discharging to the  
17 channels of Rio Hondo or San Gabriel River within Montebello  
18 Forebay upstream from stations F45B-R and F262-R shall be  
19 estimated by correlation with the local storm inflow measured  
20 at Montebello Storm Drain, Station F181-R. Such quantities shall  
21 be estimated on the basis of the individual drainage areas of  
22 storm drain projects and the runoff per unit area determined  
23 from the Montebello Storm Drain, Station F181-R, during the  
24 particular time interval under consideration. When water is  
25 flowing out of Montebello Forebay on the surface in the Rio Hondo  
26 or San Gabriel River channels, the Watermaster shall determine  
27 Local Storm Outflow as follows:

28 a. Local Storm Outflow from Rio Hondo. When outflow  
29 occurs at Station F45B-R, all local storm inflow, both measured  
30 and estimated, which enters the Rio Hondo channel between that  
31 station and Upper Area shall constitute Local Storm Outflow from  
32 Rio Hondo, but the amount thereof shall not exceed the amount of

1 outflow at Station F45B-R for such periods.

2 b. Local Storm Outflow from San Gabriel River. At  
3 such times as local storm inflow does not join Surface Flow in  
4 San Gabriel River, the portion of such local storm inflow passing  
5 Station F262-R shall constitute Local Storm Outflow. In addition,  
6 at such times as Surface Flow in the San Gabriel River commingles  
7 with the local storm inflow, then the Watermaster shall determine  
8 Local Storm Outflow as follows:

9 (1) Calculate the total amount of local  
10 storm inflow to the San Gabriel River during  
11 such times, but such amount to be used in the  
12 determination of Local Storm Outflow shall not  
13 exceed the amount of San Gabriel River outflow  
14 passing Station F262-R during such periods.

15 (2) Calculate the Local Storm Outflow  
16 passing Station F262-R during such times, which  
17 calculation shall be based on the Surface Flow  
18 and local storm inflow to the San Gabriel River  
19 channel, giving appropriate weight to the  
20 quantities involved and the distance the  
21 respective quantities of water traverse  
22 Montebello Forebay in said channel.

23 (3) These two calculations shall then be  
24 averaged arithmetically and the resulting amount  
25 shall be Local Storm Outflow from San Gabriel  
26 River.

27  
28 C. Determination and Delivery of Make-up Water

29 1. By Additions to Surface Flow (paragraph 5(i)(1) of  
30 Judgment). The determination of the amount of Make-up Water  
31 which is delivered to Lower Area as an addition to Surface Flow  
32 shall be based upon (a) measurements of Make-up Water at the

1 delivery outlet of such water upstream from Whittier Narrows,  
2 (b) measurements of water consisting in whole or in part of  
3 Make-up Water passing the applicable stations listed in Part  
4 III.A.1. of this Exhibit B, and (c) such deductions from the  
5 measurements of Make-up Water at said stations so listed as are  
6 necessary to take into account (i) the amount of any water other  
7 than Make-up Water included in the measurements at said stations  
8 so listed, (ii) any losses due to evaporation or transpiration  
9 of Make-up Water after such measurement and prior to its receipt  
10 in Lower Area, and (iii) any percolation of Make-up Water after  
11 such measurement and prior to the time it reaches the "narrowest  
12 section" in Whittier Narrows.

13 As changing conditions may require, the Watermaster  
14 shall change the points of measurement of Make-up Water in order  
15 to obtain those measurements necessary to determine the amount  
16 of Make-up Water delivered to Lower Area Parties by means of  
17 increasing Surface Flow.

18 2. By Payment for Reclaimed Water (paragraph 5(i)(2)  
19 of the Judgment). The Watermaster shall determine (a) the  
20 quantity of Reclaimed Water reclaimed at the Whittier Narrows  
21 Water Reclamation Plant as it existed October 1, 1963, and which  
22 when so reclaimed shall have been passed through Whittier  
23 Narrows, and (b) the quantity, if any, of Reclaimed Water  
24 reclaimed at any future additions to said plant after September  
25 30, 1963, and which when so reclaimed shall have been passed  
26 through Whittier Narrows. Such quantities shall be ascertained  
27 from the records of Los Angeles County Flood Control District.

28  
29 Upon being advised that a payment has been made by  
30 Upper District or Defendants to Central Municipal pursuant to  
31 the provisions of paragraph 5(i)(2) of the Judgment, the  
32 Watermaster shall credit Upper Area Parties with the delivery of  
Make-up Water computed according to said paragraph of the

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Judgment.

3. By Deliveries to a Lower Area Party (paragraph 5(i)(3) of the Judgment). Any Make-up Water delivered directly to a Lower Area Party with the consent of Plaintiffs shall be metered and the meter records reduced to acre-feet per year. Upon being advised that a Lower Area Party has received a direct delivery of Make-up Water pursuant to the provisions of paragraph 5(i)(3) of the Judgment, the Watermaster shall credit Upper Area Parties with delivery of such Make-up Water in the Water Year in which it was so delivered.

D. Long-term Accounting

The Watermaster shall maintain a record of the annual rainfall in the San Gabriel Valley, including a running average of such rainfall, so that the Watermaster will be informed when a Long-term Accounting shall be carried out as specified in paragraph 5(h) of the Judgment, and shall thereafter perform the necessary calculations for accomplishment of the adjustment, if any, between the aggregate amount of water received compared to the aggregate entitlement for the period.

E. Water Usable for Ground Water Replenishment

With respect to any delivery of Make-up Water the Watermaster shall determine the suitability of such water for ground water replenishment. The Watermaster shall gather, insofar as readily available from public and private agencies, data relating to the quality of all categories of water, Surface Flow, Subsurface Flow, Export to Lower Area, Reclaimed Water, Lower Area Replenishment Water and Make-up Water.

REIMBURSEMENT CONTRACT

LONG BEACH v. SAN GABRIEL

d.

REIMBURSEMENT CONTRACT

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ed.

REIMBURSEMENT CONTRACT

THIS CONTRACT is made by and between UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT, herein called "Upper District", and the cities of ALHAMBRA, ARCADIA, AZUSA, COVINA, EL MONTE, GLENDORA, MONTEREY PARK, MONROVIA, SOUTH PASADENA, and WHITTIER; BALDWIN PARK COUNTY WATER DISTRICT, and SAN GABRIEL COUNTY WATER DISTRICT; AZUSA AGRICULTURAL WATER COMPANY, AZUSA VALLEY WATER COMPANY, CALIFORNIA DOMESTIC WATER COMPANY, CALIFORNIA WATER & TELEPHONE COMPANY, COLUMBIA LAND AND WATER COMPANY, COVINA IRRIGATING COMPANY, CROSS WATER COMPANY, DUARTE WATER COMPANY, EAST PASADENA WATER COMPANY, LTD., GLENDORA IRRIGATING COMPANY, SAN DIMAS WATER COMPANY, SAN GABRIEL VALLEY WATER COMPANY, SOUTHERN CALIFORNIA WATER COMPANY, SUBURBAN WATER SYSTEMS, SUNNYSLOPE WATER COMPANY, and VALLECITO WATER COMPANY, corporations, herein collectively called "Pumpers."

ed.

RECITALS

1. The Action. In the matter of Board of Water Commissioners of the City of Long Beach, et al. v. San Gabriel Valley Water Company, et al., (L. A. Superior Court No. 722,647) the water rights of substantially all major water producers in the main San Gabriel Valley are sought to be restricted.

2. Judgment. The parties named above, except City

of Whittier, are concurrently executing a Stipulation that a Judgment substantially in the form annexed hereto shall be rendered and it is anticipated that such Judgment will be rendered in the action.

3. Public Interest in Settlement. It is in the best interests of the Pumpers and in the best interests of the water users and taxpayers within the corporate boundaries of those Pumpers which are public agencies, of the consumers of those Pumpers which are utilities or mutual water companies, and of all residents and taxpayers of Upper District, that said action be settled and disposed of in accordance with the terms of said judgment in order to preserve the water supplies within Upper Area.

#### DEFINITIONS

1. "Contract Costs" -- All costs hereafter paid by Upper District:

ed.

(a) In providing Make-up Water under the terms of the judgment. In computing such cost of providing Make-up Water, any cost which Upper District shall pay which it would have paid even though it had not provided Make-up Water shall be excluded; and particularly but not exclusively, no amount which shall be paid to The Metropolitan Water District of Southern California as a condition to any past or future annexation shall be

deemed a cost of providing Make-up Water. Such costs may include interest paid by Upper District upon money borrowed for advancements made by it or interest which would have been received by the District, but which it lost by reason of making such advancements.

(b) In complying with the terms of said judgment.

(c) In keeping the records, making the determinations and collecting the moneys required by the later provisions of this contract.

2. "Assessable Pumpage" -- The amount of ground water produced in the applicable calendar year by or on behalf of any Pumper by pumping or extraction thereof from the Upper Area, including ground water produced under rights hereafter acquired from any source.

ed. 3. "Common Terms With Judgment" -- All terms specially defined in said judgment are used herein in the sense in which they are therein defined, and said special definitions are incorporated herein by this reference.

#### OPERATIVE PROVISIONS

1. "Consideration for Execution. The great majority of the defendants in the action are situated in whole or in part within Upper District and pump water therein. Certain defendants, including the Cities of Alhambra, Azusa and

Monterey Park, as well as the City of Whittier which is not a defendant, lie outside Upper District. Execution of this agreement by all parties to it is essential to induce each party hereto to execute this agreement, and likewise, execution of the Stipulation for Judgment by all defendants in the action is necessary to induce each party hereto to execute this contract. Each party executes this contract in consideration of its execution by the other parties, and in consideration of the execution of the Stipulation by the parties thereto. Moreover, by this contract each party other than City of Whittier waives its right to cross-complain in the action so as to bring City of Whittier into the action as a party.

2. Intervention by Upper District. In consideration of the execution of this contract by Pumpers and to contribute to the physical solution of providing adequate water for its inhabitants, Upper District has intervened as a defendant in the action and agrees to execute the stipulation for said judgment.

3. Administration. Upper District shall administer the provisions of Paragraphs 6 through 9, below, as to all Pumpers, including additional parties hereto mentioned in Paragraph 16.

4. Covenant to Reimburse. Each Pumper hereby agrees to pay to Upper District such Pumper's share of Contract

Costs allocated and determined as provided below.

5. Allocation of Costs Among Pumpers. Pumpers agree among themselves, each for the benefit of all other Pumpers, to share and participate in the payment of any sums due Upper District hereunder in such proportion as the Assessable Pumpage of each Pumper bears to the total Assessable Pumpage of all Pumpers for the applicable period covered by any assessment as hereinafter provided, subject to the provisions of Paragraph 9 below.

6. Reports by Pumpers. Pumpers shall file under penalty of perjury the reports hereinafter specified in the form provided by Upper District, as follows:

(a) Time and Procedure for Filing. Each year, on or before March 1, each Pumper shall file with Upper District a written report of its extractions of water from Upper Area for the preceding calendar year containing the information set forth in subparagraph (b) of this paragraph.

(b) Contents of the Report. Such annual reports to Upper District shall set forth:

(1) The name and address of the Pumper;  
and

(2) The number of acre feet of water which was pumped or extracted from Upper Area by or on behalf of the Pumper during

the calendar year covered.

(c) Determination in Lieu of Report. In the event any Pumper fails to so file such report, Upper District may make a determination of the Assessable Pumpage of such Pumper, which determination shall be final and binding.

7. Notice of Assessment. On or before June 1 of each year, Upper District shall serve a Notice of Assessment on each Pumper covering the preceding calendar year which will contain a statement of:

(a) The amount of Assessable Pumpage by each Pumper;

(b) A detailed statement of Contract Costs during the preceding calendar year, if any; and

(c) A statement of the amount of such Contract Costs which are assessable to and payable by the Pumper to whom such notice is sent.

ed.

8. Payment--Delinquency and Default. All assessments herein provided for shall be due and payable on the following July 31. In the event of nonpayment of any assessment, Upper District may bring an action and shall have the right to recover such assessment, together with interest thereon at the rate of 7% per annum from the date of delinquency and costs of suit, including any reasonable attorneys' fees incurred.

If, after due diligence, Upper District is unable to collect a Pumper's allocated cost, such uncollectible amount (including interest, costs and attorneys' fees) shall be prorated among and paid by the other Pumpers in the same proportions as they paid assessments for the year or years in question. Said proration shall be billed and payable with the next succeeding assessment.

9. Redetermination of Assessable Pumpage. Any Pumper may at any time within 90 days after receipt of any Notice of Assessment request a redetermination of the Assessable Pumpage of such Pumper or of any other Pumper or Pumpers reflected in such notice. Such request shall be addressed in writing to Upper District and shall set forth the basis of the requesting Pumper's belief that such data are incorrect. Upon the receipt of any request, the following procedures shall be undertaken by Upper District:

ed.

(a) Notice of Request for Redetermination.

Upper District shall forthwith notify in writing any Pumper whose Assessable Pumpage has been questioned, of the fact of such request and the name of the requesting Pumper. Notice shall further be sent to all Pumpers that procedures will be undertaken pursuant to this paragraph, and shall state briefly the issues to be determined.

(b) Availability of Records. Subsequent to such notice, the records of the Pumper whose Assessable Pumpage is subject to a request for redetermination shall be made available at reasonable hours and upon reasonable demand to Upper District, insofar as such records are relevant to a determination of the Assessable Pumpage of the Pumper during the period involved.

(c) Investigation and Notice of Hearing. Upper District shall conduct an investigation and shall by written decision served on all Pumpers redetermine or affirm such Assessable Pumpage. Upper District may at its option set a date for hearing. In such event, at least ten days' notice in writing of said hearing date shall be given to all Pumpers.

ed.

(d) Conduct of Hearing and Decision. If hearing be held, Upper District shall not be bound therein by strict rules of evidence, but may rely on any evidence which it deems of probative value. Any Pumper may present evidence and arguments thereat. The written decision of Upper District, with or without such hearing, shall be served on all Pumpers and shall be conclusive for purposes of this contract, unless said issue is submitted

to a court of competent jurisdiction within 90 days from notice of such decision.

(e) Reallocation of Contract Costs. If Assessable Pumpage is modified by any such decision, Contract Costs shall be reallocated in accordance therewith. Said reallocation shall be billed and payable with the next succeeding assessment.

10. Water Rights Unaffected. This contract relates solely to the equitable allocation of Contract Costs and does not involve or constitute an admission or agreement as to the water rights of any Pumper. Execution of this contract shall not prevent any party hereto from bringing or maintaining any action or proceeding to determine rights to pump, extract or store water, or to limit or curtail any pumping, extraction or storage of water in or from Upper Area or elsewhere, except as limited by Paragraphs 1 and 16 of the Operative Provisions hereof.

ed.

11. Changed Conditions. It is recognized that conditions in Upper Area may hereafter change to such an extent that it may become equitable to modify either the total obligation of Pumpers to Upper District hereunder or the allocation of Contract Costs. While this contract is entered into to assure Upper District of reimbursement of an amount up to its entire Contract Costs, it is not intended hereby, and this contract shall not be deemed, to prevent Upper District

from modifying and reducing such obligation or from applying other relief which may reduce the burden on Pumpers. Without limitation upon the power of Upper District to otherwise reduce the aggregate amount payable under this contract, the following specific instances of changed conditions are contemplated:

(a) Allocation of Portion of Burden to Taxes.

It may at some future date appear equitable and fair to allocate all or a portion of Contract Costs to ad valorem taxes or other revenues of Upper District. In such event, Upper District may, in the discretion of its Board of Directors, allocate all or a portion of Contract Costs to such revenue sources and the remainder, if any, thereof, shall be payable under the terms of this contract.

ed. (b) Imposition of Pump Tax. If Upper District should acquire and exercise the right to levy a tax upon the pumping or extraction of ground water, then the aggregate of such tax shall be credited proportionally amongst Pumpers with respect to Assessable Pumpage within Upper District.

(c) Adjudication of Rights. If all or substantially all of the water rights within Upper Area shall be adjudicated (including the rights of all Pumpers), and its natural and safe yield

determined, then this contract shall be deemed modified to the extent that Assessable Pumpage shall include only that amount of water produced over and above the safe yield portion of adjudicated rights owned by any Pumper; provided that this subparagraph (c) shall not apply to any year in which the aggregate of all Assessable Pumpage as so modified is less than 25,000 acre feet.

12. Effective Date. This contract shall be effective ten (10) days after notice in writing of execution thereof by all parties, which notice shall be given to all Pumpers by Upper District, but shall cease and terminate on July 1, 1966, unless by said date (a) this contract shall have been validated as provided below, and (b) the Judgment shall have been rendered.

ed.

13. Validation. Within four months after this contract becomes effective, a proceeding or proceedings shall be instituted by Upper District in a court of competent jurisdiction by an appropriate action or actions for determination of the validity of this contract.

14. Term. The term of this contract shall commence upon its effective date and continue so long as the Judgment, as entered or as modified, shall remain in effect, subject, however, to the provisions of Paragraph 12 above.

15. Notices. Any notice to be served upon any party hereunder may be served either personally or by mail. If served by mail, such notice shall be mailed in the County of Los Angeles, State of California, by certified mail, postage prepaid, return receipt requested, or by registered mail, and shall be addressed to the party to be served at its address as set forth below, or (in the case of Upper District) at such other address as it may have last specified in writing to the Pumper or Pumpers involved for the service of notices hereunder, or (in the case of a Pumper) at such other address as it may have last specified in writing to Upper District for the service of notices hereunder. Any notice so served by mail shall be deemed to have been served upon the first business day (excluding Saturdays, Sundays and holidays) after such mailing.

ed.

16. Additional Parties. In addition to Pumpers and their successors and assigns referred to in Paragraph 17 below, any other person or entity who or which shall pump or extract water in or from Upper Area (herein referred to as an "additional party"), may become a party to this contract, provided (a) Upper District shall give its written consent thereto, and (b) no Pumper or additional party shall serve upon Upper District its written objection thereto. If Upper District shall give its written consent to execution of this contract by an applying additional party, it shall

then give written notice of such application and consent by Upper District to each Pumper and each additional party, and if within thirty (30) days after such notice no Pumper or additional party shall have served upon Upper District its written objection to execution of this contract by the applying additional party, such additional party's application shall be deemed to have been accepted and it may become a party to this contract by delivery to Upper District of a duly executed instrument in writing stating that such person or entity joins in and becomes a party to this contract.

Any additional party so joining shall become bound by all obligations of this contract, becoming due or which should be performed within the terms of this contract on and after the ensuing January 1. Such obligations include the duty to make the report of extractions during the preceding calendar year (i.e., the year in which the contract is executed) required by Paragraph 6, and to make the payment based upon such extractions as required by Paragraph 5, provided, however, that such additional party shall have no liability under Paragraph 8 with respect to any nonpayments of an assessment based upon extractions by a Pumper or other additional party prior to the year in which such additional party joins in this contract.

As to each Pumper who executes this contract after it becomes effective, Upper District agrees that for a

period of 90 days after giving its said written consent, it will bring no action against such additional party to limit or define its rights to pump water in or from Upper Area. Further, if more than one such Pumper shall become a party to this agreement at the same time as any other pumper, each will execute and shall be deemed to have executed this contract and to have joined therein in consideration of the joinder in this contract by the other or others concurrently joining in this contract.

Any such additional party shall be deemed a Pumper for all purposes of this agreement.

ed. 17. Successors and Assigns. This contract shall inure to the benefit of and bind the successors in ownership of the water rights of the parties. If any Pumper shall sell or transfer or agree to sell or transfer its water rights in Upper Area or any part of such water rights, such Pumper shall require as a condition of any such sale, transfer or agreement that the purchaser or transferee, if not already a party to this contract, shall execute this contract and become a party thereto. Upon a full transfer of such rights by a Pumper and assumption by the assignee as above provided, the assigning Pumper shall be discharged of obligation hereunder. If such Pumper fails to obtain such assumption (except in cases of a transfer under order of court or by operation of law) the assigning Pumper shall

remain bound by the contract and production of water by said assignee by the exercise of the right assigned shall be treated as production by such Pumper.

18. Execution in Counterparts. This contract may be executed in counterparts (each counterpart being an exact copy or duplicate of the original) and all counterparts collectively shall be considered as constituting one complete contract.

IN WITNESS WHEREOF this contract is executed by the undersigned by its duly authorized officer.

Dated: \_\_\_\_\_

\_\_\_\_\_

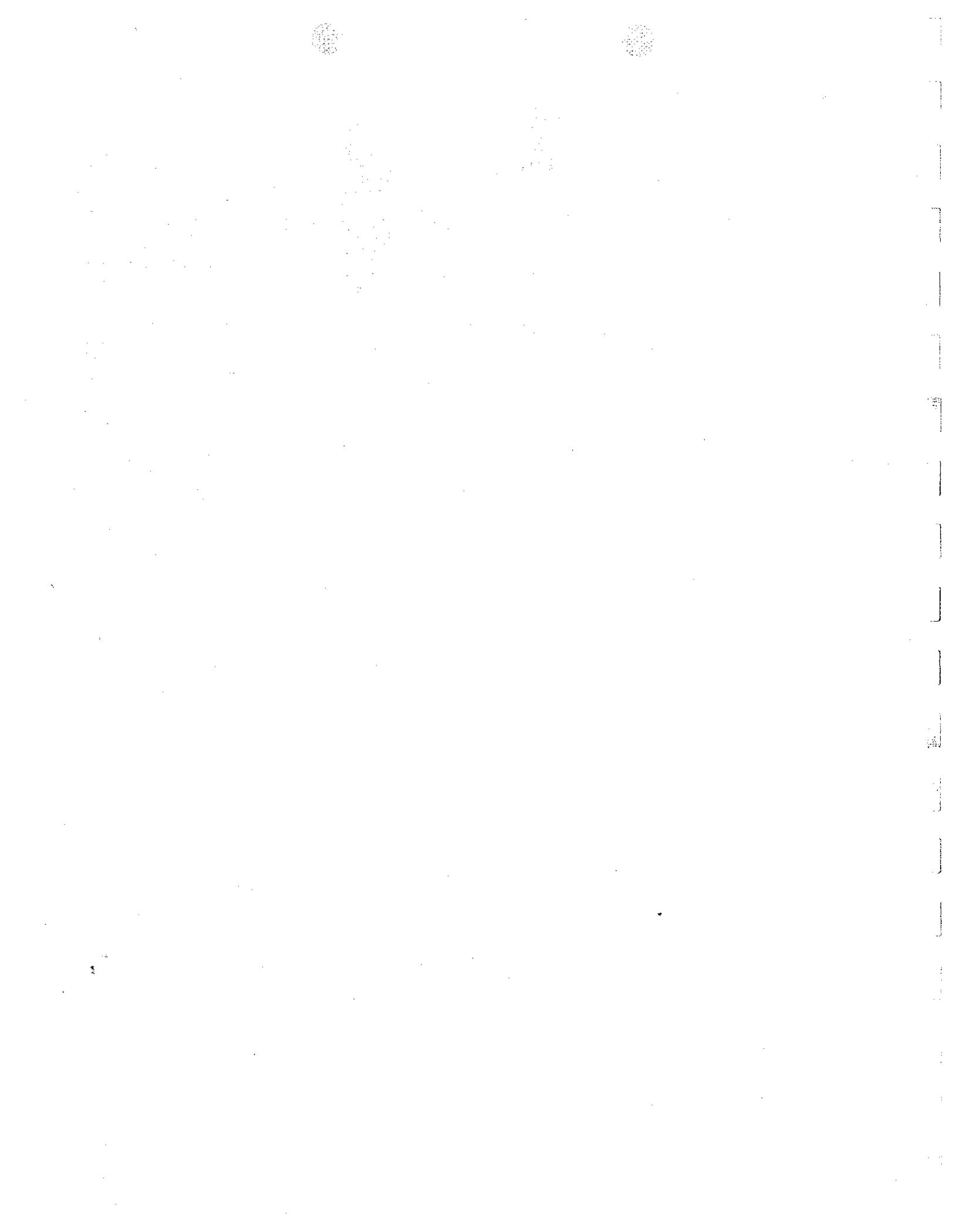
By \_\_\_\_\_

By \_\_\_\_\_

(SEAL)

ed.

**APPENDIX E**  
Main Basin Judgment



SUPERIOR COURT OF THE STATE OF CALIFORNIA  
FOR THE COUNTY OF LOS ANGELES

UPPER SAN GABRIEL VALLEY  
MUNICIPAL WATER DISTRICT

Plaintiff,

vs.

CITY OF ALHAMBRA, et al,

Defendants.

---

No. 924128

AMENDED JUDGMENT  
(and Exhibits Thereto),

Honorable Florence T. Pickard  
Assigned Judge Presiding

Original Judgment  
Signed and Filed: December 29, 1972;  
Entered: January 4, 1973  
Book 6741, Page 197

JUDGMENT AS AMENDED AUGUST 24, 1989

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Ralph B. Helm  
Suite 214  
4605 Lankershim Boulevard  
North Hollywood, CA 91602  
Telephone (818) 769-2002  
  
Attorney for Watermaster

SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES

UPPER SAN GABRIEL VALLEY )  
MUNICIPAL WATER DISTRICT, )  
 )  
Plaintiff, )  
 )  
vs. )  
 )  
CITY OF ALHAMBRA, et al., )  
 )  
Defendants. )

No. 924128  
AMENDED JUDGMENT  
(And Exhibits Thereto)

HONORABLE FLORENCE T. PICKARD  
Assigned Judge Presiding  
DEPARTMENT 38  
August 24, 1989

AMENDED JUDGMENT  
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And  
Amended Judgment Sections  
Identified With Prior Judgment  
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27 "A" -- Map entitled "San Gabriel River Watershed  
28 Tributary to Whittier Narrows"

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Exhibits Continued

- "B" -- Boundaries of Relevant Watershed
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- "J" -- Puente Narrows Agreement
- "K" -- Overlying Rights
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- "M" -- Watermaster Members, Officers, and Staff Including  
Calendar Year 1989 (New)

1 Ralph B. Helm  
Suite 214  
2 4605 Lankershim Boulevard  
North Hollywood, CA 91602.  
3 Telephone (818) 769-2002  
4 Attorney for Watermaster

5  
6  
7  
8 SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES  
9

10	UPPER SAN GABRIEL VALLEY	)	
	MUNICIPAL WATER DISTRICT,	)	No. 924128
11		)	
	Plaintiff,	)	AMENDED JUDGMENT
12		)	
		)	
13	vs.	)	
		)	
14	CITY OF ALHAMBRA, et al.,	)	
		)	
15	Defendants.	)	Hearing: August 24, 1989
16		)	Department 38, 9:00 A.M.

17 The Petition of the MAIN SAN GABRIEL BASIN WATERMASTER  
18 for this AMENDED JUDGMENT herein, came on regularly for hearing  
19 in this Court before the HONORABLE FLORENCE T. PICKARD, ASSIGNED  
20 JUDGE PRESIDING, on August 24, 1989; Ralph B. Helm appeared as  
21 attorney for Watermaster - Petitioner; and good cause appearing,  
22 the following ORDER and AMENDED JUDGMENT are, hereby, made:

23 I. INTRODUCTION

24 1. Pleadings, Parties, and Jurisdiction. The complaint  
25 herein was filed on January 2, 1968, seeking an adjudication of  
26 water rights. By amendment of said complaint and dismissals of  
27 certain parties, said adjudication was limited to the Main San  
28 Gabriel Basin and its Relevant Watershed. Substantially all

1 defendants and the cross-defendant have appeared herein, certain  
2 defaults have been entered, and other defendants dismissed.  
3 By the pleadings herein and by Order of this Court, the issues  
4 have been made those of a full inter se adjudication of water  
5 rights as between each and all of the parties. This Court has  
6 jurisdiction of the subject matter of this action and of the  
7 parties herein.

8 2. Stipulation for Entry of Judgment. A substantial  
9 majority of the parties, by number and by quantity of rights  
10 herein Adjudicated, Stipulated for entry of a Judgment in  
11 substantially the form of the original Judgment herein.

12 3. Lis Pendens. (New) A Lis Pendens was recorded August  
13 20, 1970, as Document 2650, in Official Records of Los Angeles  
14 County, California, in Book M 3554, Page 866.

15 4. Findings and Conclusions. (Prior Judgment Section 3)  
16 Trial was had before the Court, sitting without a jury, John  
17 Shea, Judge Presiding, commencing on October 30, 1972, and  
18 Findings of Fact and Conclusions of Law have been entered  
19 herein.

20 5. Judgment. (New) Judgment (and Exhibits Thereto),  
21 Findings of Fact and Conclusions of Law (and Exhibits thereto),  
22 Order Appointing Watermaster, and Initial Watermaster Order were  
23 signed and filed December 29, 1972, and Judgment was entered  
24 January 4, 1973, in Book 6791, Page 197.

25 6. Intervention After Judgment. (New) Certain defendants  
26 have, pursuant to the Judgment herein and the Court's continuing  
27 jurisdiction, intervened and appeared herein after entry of  
28 Judgment.

1           7. Amendments to Judgment. (New) The original Judgment  
2 herein was previously amended on March 29, 1979, by: (1) adding  
3 definition (r [1]) thereto, (2) amending definition (bb)  
4 therein, (3) adding Exhibit "K" thereto, (4) adding Sections  
5 14.5 and 16.5 thereto, and (5) amending Sections 37(b), 37(c),  
6 37(d), and Section 47 therein; it was again amended on December  
7 21, 1979, by amending Section 38(c) thereof; again amended on  
8 February 21, 1980, by amending Section 24 thereof; again amended  
9 on September 12, 1980, by amending Sections 35(a), 37(a), and  
10 38(a); again amended on December 22, 1987, by adding Section  
11 37(e) thereto; and last amended on July 22, 1988 by amending  
12 Section 37(e) thereof and Ordering an Amended Judgment herein.

13           8. Transfers. (New) Since the entry of Judgment herein  
14 there have been numerous transfers of Adjudicated water rights.  
15 To the date hereof, said transfers are reflected in Exhibits  
16 "C", "D", and "E".

17           9. Producers and Their Designees. (New) The current  
18 status of Producers and their Designees is shown on Exhibit "L".

19           10. Definitions. (Prior Judgment Section 4) As used in  
20 this Judgment, the following terms shall have the meanings  
21 herein set forth:

22           (a) Base Annual Diversion Right -- The average annual  
23 quantity of water which a Diverter is herein found to have the  
24 right to Divert for Direct Use.

25           (b) Direct Use -- Beneficial use of water other than  
26 for spreading or Ground Water recharge.

27           (c) Divert or Diverting -- To take waters of any  
28 surface stream within the Relevant Watershed.

- 1 (d) Diverter -- Any party who Diverts.
- 2 (e) Elevation -- Feet above mean sea level.
- 3 (f) Fiscal Year -- A period July 1 through June 30,  
4 following.
- 5 (g) Ground Water -- Water beneath the surface of the  
6 ground and within the zone of saturation.
- 7 (h) Ground Water Basin -- An interconnected permeable  
8 geologic formation capable of storing a substantial Ground Water  
9 supply.
- 10 (i) Integrated Producer -- Any party that is both a  
11 Pumper and a Diverter, and has elected to have its rights  
12 adjudicated under the optional formula provided in Section 18 of  
13 this Judgment.
- 14 (j) In-Lieu Water Cost -- The differential between a  
15 Producer's non-capital cost of direct delivery of Supplemental  
16 Water and the cost of Production of Ground Water (including  
17 depreciation on Production facilities) to a particular Producer  
18 who has been required by Watermaster to take direct delivery of  
19 Supplemental Water in lieu of Ground Water.
- 20 (k) Key Well -- Baldwin Park Key Well, being elsewhere  
21 designated as State Well No. 1S/10W-7R2, or Los Angeles County  
22 Flood Control District Well No. 3030-F. Said well has a ground  
23 surface Elevation of 386.7.
- 24 (l) Long Beach Case -- Los Angeles Superior Court  
25 Civil Action No. 722647, entitled, "Long Beach, et al., v. San  
26 Gabriel Valley Water Company, et al."
- 27 (m) Main San Gabriel Basin or Basin -- The Ground  
28 Water Basin underlying the area shown as such on Exhibit "A".

1 (n) Make-up Obligation -- The total cost of meeting  
2 the obligation of the Basin to the area at or below Whittier  
3 Narrows, pursuant to the Judgment in the Long Beach Case.

4 (o) Minimal Producer -- Any party whose Production in  
5 any Fiscal Year does not exceed five (5) acre feet.

6 (p) Natural Safe Yield -- The quantity of natural water  
7 supply which can be extracted annually from the Basin under  
8 conditions of long term average annual supply, net of the  
9 requirement to meet downstream rights as determined in the Long  
10 Beach Case (exclusive of Pumped export), and under cultural  
11 conditions as of a particular year.

12 (q) Operating Safe Yield -- The quantity of water  
13 which the Watermaster determines hereunder may be Pumped from  
14 the Basin in a particular Fiscal Year, free of the Replacement  
15 Water Assessment under the Physical Solution herein.

16 (r) Overdraft -- A condition wherein the total annual  
17 Production from the Basin exceeds the Natural Safe Yield  
18 thereof.

19 (s) Overlying Rights -- (Prior Judgment Section  
20 4 (r) [1]) The right to Produce water from the Basin for use  
21 on Overlying Lands, which rights are exercisable only on  
22 specifically defined Overlying Lands and which cannot be  
23 separately conveyed or transferred apart therefrom.

24 (t) Physical Solution -- (Prior Judgment Section 4  
25 (s)) The Court decreed method of managing the waters of the  
26 Basin so as to achieve the maximum utilization of the Basin and  
27 its water supply, consistent with the rights herein declared.

28 (u) Prescriptive Pumping Right -- (Prior Judgment

1 Section 4 (t)) The highest continuous extractions of water by  
2 a Pumper from the Basin for beneficial use in any five (5)  
3 consecutive years after commencement of Overdraft and prior to  
4 filing of this action, as to which there has been no cessation  
5 of use by that Pumper during any subsequent period of five (5)  
6 consecutive years, prior to the said filing of this action.

7 (v) Produce or Producing -- (Prior Judgment Section 4  
8 (u)) To Pump or Divert water.

9 (w) Producer -- (Prior Judgment Section 4 (v)) A  
10 party who Produces water.

11 (x) Production -- (Prior Judgment Section 4 (w)) The  
12 annual quantity of water Produced, stated in acre feet.

13 (y) Pump or Pumping -- (Prior Judgment Section 4  
14 (x)) To extract Ground Water from the Basin by Pumping or any  
15 other method.

16 (z) Pumper -- (Prior Judgment Section 4 (y)) Any  
17 party who Pumps water.

18 (aa) Pumper's Share -- (Prior Judgment Section 4 (z))  
19 A Pumper's right to a percentage of the entire Natural Safe  
20 Yield, Operating Safe Yield and appurtenant Ground Water  
21 storage.

22 (bb) Relevant Watershed -- (Prior Judgment Section  
23 4(aa)) That portion of the San Gabriel River watershed  
24 tributary to Whittier Narrows which is shown as such on Exhibit  
25 "A", and the exterior boundaries of which are described in  
26 Exhibit "B".

27 (cc) Replacement Water -- (Prior Judgment Section 4  
28 (bb)) Water purchased by Watermaster to replace:

1 (1) Production in excess of a Pumper's Share of Operating Safe  
2 Yield; (2) The consumptive use portion resulting from the  
3 exercise of an Overlying Right; and (3) Production in excess of  
4 a Diverter's right to Divert for Direct Use.

5 (dd) Responsible Agency -- (Prior Judgment Section 4  
6 (cc)) The municipal water district which is the normal and  
7 appropriate source from whom Watermaster shall purchase  
8 Supplemental Water for replacement purposes under the Physical  
9 Solution, being one of the following:

10 (1) Upper District -- Upper San Gabriel  
11 Valley Municipal Water District, a member public agency of  
12 The Metropolitan Water District of Southern California  
13 (MWD).

14 (2) San Gabriel District -- San Gabriel Valley  
15 Municipal Water District, which has a direct contract with  
16 the State of California for State Project Water.

17 (3) Three Valleys District -- Three Valleys  
18 Municipal Water District, formerly, "Pomona Valley  
19 Municipal Water District", a member public agency of MWD.

20 (ee) Stored Water -- (Prior Judgment Section 4 (dd))  
21 Supplemental Water stored in the Basin pursuant to a contract  
22 with Watermaster as authorized by Section 34(m).

23 (ff) Supplemental Water -- (Prior Judgment Section 4  
24 (ee)) Nontributary water imported through a Responsible Agency.

25 (gg) Transporting Parties -- (Prior Judgment Section 4  
26 (ff)) Any party presently transporting water (i.e., during the  
27 12 months immediately preceding the making of the findings  
28 herein) from the Relevant Watershed or Basin to an area outside

1       thereof, and any party presently or hereafter having an interest  
2       in lands or having a service area outside the Basin or Relevant  
3       Watershed contiguous to lands in which it has an interest or a  
4       service area within the Basin or Relevant Watershed. Division  
5       by a road, highway, or easement shall not interrupt contiguity.  
6       Said term shall also include the City of Sierra Madre, or any  
7       party supplying water thereto, so long as the corporate limits  
8       of said City are included within one of the Responsible Agencies  
9       and if said City, in order to supply water to its corporate area  
10      from the Basin, becomes a party to this action bound by this  
11      Judgment.

12               (hh) Water Level -- (Prior Judgment Section 4 (gg))  
13      The measured Elevation of water in the Key Well, corrected for  
14      any temporary effects of mounding caused by replenishment or  
15      local depressions caused by Pumping.

16               (ii) Year -- (Prior Judgment Section 4 (hh)) A  
17      calendar year, unless the context clearly indicates a contrary  
18      meaning.

19               11. Exhibits. (Prior Judgment Section 5) The following  
20      exhibits are attached to this Judgment and incorporated herein  
21      by this reference:

22                       Exhibit "A" -- Map entitled "San Gabriel River  
23                       Watershed Tributary to Whittier Narrows", showing the  
24                       boundaries and relevant geologic and hydrologic features in  
25                       the portion of the watershed of the San Gabriel River lying  
26                       upstream from Whittier Narrows.

27                       Exhibit "B" -- Boundaries of Relevant Watershed.

28                       Exhibit "C" -- Table Showing Base Annual Diversion

1 Rights of Certain Diverters.

2 Exhibit "D" -- Table Showing Prescriptive Pumping  
3 Rights and Pumper's Share of Each Pumper.

4 Exhibit "E" -- Table Showing Production Rights of Each  
5 Integrated Producer.

6 Exhibit "F" -- Table Showing Special Category Rights.

7 Exhibit "G" -- Table Showing Non-consumptive Users.

8 Exhibit "H" -- Watermaster Operating Criteria.

9 Exhibit "J" -- Puente Narrows Agreement.

10 Exhibit "K" -- Overlying Rights, Nature of Overlying  
11 Right, Description of Overlying Lands to which Overlying  
12 Rights are Appurtenant, Producers Entitled to Exercise  
13 Overlying Rights and their Respective Consumptive Use  
14 Portions, and Map of Overlying Lands.

15 Exhibit "L" -- (New) List of Producers And Their  
16 Designees, as of June 1988.

17 Exhibit "M" -- (New) Watermaster Members, Officers  
18 and Staff, Including Calendar Year 1989.

19 II. DECREE

20 NOW, THEREFORE, IT IS HEREBY DECLARED, ORDERED, ADJUDGED  
21 AND DECREED:

22 A. DECLARATION OF HYDROLOGIC CONDITIONS

23 12. Basin as Common Source of Supply. (Prior Judgment  
24 Section 6) The area shown on Exhibit "A" as Main San Gabriel  
25 Basin overlies a Ground Water basin. The Relevant Watershed is  
26 the watershed area within which rights are herein adjudicated.  
27 The waters of the Basin and Relevant Watershed constitute a  
28 common source of natural water supply to the parties herein.

1           13. Determination of Natural Safe Yield. (Prior Judgment  
2 Section 7) The Natural Safe Yield of the Main San Gabriel Basin  
3 is found and declared to be one hundred fifty-two thousand  
4 seven-hundred (152,700) acre feet under Calendar Year 1967  
5 cultural conditions.

6           14. Existence of Overdraft. (Prior Judgment Section 8)  
7 In each and every Calendar Year commencing with 1953, the Basin  
8 has been and is in Overdraft.

9                                   B. DECLARATION OF RIGHTS

10           15. Prescription. (Prior Judgment Section 9) The use of  
11 water by each and all parties and their predecessors in interest  
12 has been open, notorious, hostile, adverse, under claim of  
13 right, and with notice of said overdraft continuously from  
14 January 1, 1953 to January 4, 1973. The rights of each party  
15 herein declared are prescriptive in nature. The following  
16 aggregate consequences of said prescription within the Basin and  
17 Relevant Watershed are hereby declared:

18                   (a) Prior Prescription. Diversions within the  
19 Relevant Watershed have created rights for direct  
20 consumptive use within the Basin, as declared and  
21 determined in Sections 16 and 18 hereof, which are of  
22 equal priority inter se, but which are prior and paramount  
23 to Pumping Rights in the Basin.

24                   (b) Mutual Prescription. The aggregate Prescriptive  
25 Pumping Rights of the parties who are Pumpers now exceed,  
26 and for many years prior to filing of this action, have  
27 exceeded, the Natural Safe Yield of the Basin. By reason  
28 of said condition, all rights of said Pumpers are declared

1 to be mutually prescriptive and of equal priority, inter  
2 se.

3 (c) Common Ownership of Safe Yield and Incidents  
4 Thereeto. By reason of said Overdraft and mutual Pre-  
5 scription, the entire Natural Safe Yield of the Basin, the  
6 Operating Safe Yield thereof and the appurtenant rights to  
7 Ground Water storage capacity of the Basin are owned by  
8 Pumpers in undivided Pumpers' Shares as hereinafter  
9 individually declared, subject to the control of  
10 Watermaster, pursuant to the Physical Solution herein  
11 decreed. Nothing herein shall be deemed in derogation of  
12 the rights to spread water pursuant to rights set forth in  
13 Exhibit "G".

14 16. Surface Rights. (Prior Judgment Section 10) Certain  
15 of the aforesaid prior and paramount prescriptive water rights  
16 of Diverters to Divert for Direct Use stream flow within the  
17 Relevant Watershed are hereby declared and found in terms of  
18 Base Annual Diversion Right as set forth in Exhibit "C". Each  
19 Diverter shown on Exhibit "C" shall be entitled to Divert for  
20 Direct Use up to two hundred percent (200%) of said Base Annual  
21 Diversion Right in any one (1) Fiscal Year; provided that the  
22 aggregate quantities of water Diverted in any consecutive ten  
23 (10) Fiscal Year period shall not exceed ten (10) times such  
24 Diverter's Base Annual Diversion Right.

25 17. Ground Water Rights. (Prior Judgment Section 11) The  
26 Prescriptive Pumping Right of each Pumper, who is not an  
27 Integrated Producer, and his Pumper's Share are declared as set  
28 forth in Exhibit "D".

1           18. Optional Integrated Production Rights. (Prior  
2 Judgment Section 12) Those parties listed on Exhibit "E" have  
3 elected to be treated as Integrated Producers. Integrated  
4 Production Rights have two (2) historical components:

5                 (1) a fixed component based upon historic  
6                 Diversions for Direct Use; and

7                 (2) a mutually prescriptive Pumper's Share  
8                 component based upon Pumping during the period 1953 through  
9                 1967.

10 Assessment and other Watermaster regulation of the rights of  
11 such parties shall relate to and be based upon each such  
12 component. So far as future exercise of such rights is  
13 concerned, however, the gross quantity of the aggregate right in  
14 any Fiscal Year may be exercised, in the sole discretion of such  
15 party, by either Diversion or Pumping or any combination or  
16 apportionment thereof; provided, that for Assessment purposes  
17 the first water Produced in any Fiscal Year (other than "carry-  
18 over", under Section 49 hereof) shall be deemed an exercise of  
19 the Diversion component, and any Production over said quantity  
20 shall be deemed Pumped water, regardless of the actual method of  
21 Production.

22           19. Special Category Rights. (Prior Judgment Section 13)  
23 The parties listed on Exhibit "F" have water rights in the  
24 Relevant Watershed which are not ordinary Production rights.  
25 The nature of each such right is as described in Exhibit "F".

26           20. Non-consumptive Practices. (Prior Judgment Section  
27 14) Certain Producers have engaged in Water Diversion and  
28 spreading practices which have caused such Diversions to have a

1 non-consumptive or beneficial impact upon the aggregate water  
2 supply available in the Basin. Said parties, and a statement of  
3 the nature of their rights, uses and practices, are set forth in  
4 Exhibit "G". The Physical Solution decreed herein, and  
5 particularly its provisions for Assessments, shall not apply to  
6 such non-consumptive uses. Watermaster may require reports on  
7 the operations of said parties.

8 21. Overlying Rights. (Prior Judgment Section 14.5)

9 Producers listed in Exhibit "K" hereto were not parties herein  
10 at the time of the original entry of Judgment herein. They have  
11 exercised in good faith Overlying Rights to Produce water from  
12 the Basin during the periods subsequent to the entry of Judgment  
13 herein and have by self-help initiated or maintained appurtenant  
14 Overlying Rights. Such rights are exercisable without  
15 quantitative limit only on specifically described Overlying Land  
16 and cannot be separately conveyed or transferred apart  
17 therefrom. As to such rights and their exercise, the owners  
18 thereof shall become parties to this action and be subject to  
19 Watermaster Replacement Water Assessments under Section 45 (b)  
20 hereof, sufficient to purchase Replenishment Water to offset the  
21 net consumptive use of such Production and practices. In  
22 addition, the gross amount of such Production for such overlying  
23 use shall be subject to Watermaster Administrative Assessments  
24 under Section 45 (a) hereof and the consumptive use portion of  
25 such Production for overlying use shall be subject to  
26 Watermaster's In-Lieu Water Cost Assessments under Section  
27 45 (d) hereof. The Producers presently entitled to exercise  
28 Overlying Rights, a description of the Overlying Land to which

1 Overlying Rights are appurtenant, the nature of use and the  
2 consumptive use portion thereof are set forth in Exhibit "K"  
3 hereto. Watermaster may require reports and make inspections of  
4 the operations of said parties for purposes of verifying the  
5 uses set forth in said Exhibit "K", and, in the event of a  
6 material change, to redetermine the net amount of consumptive  
7 use by such parties as changed in the exercise of such Overlying  
8 Rights. Annually, during the first two (2) weeks of June in  
9 each Calendar Year, such Overlying Rights Producers shall submit  
10 to Watermaster a verified statement as to the nature of the then  
11 current uses of said Overlying Rights on said Overlying Lands  
12 for the next ensuing Fiscal Year, whereupon Watermaster shall  
13 either affirm the prior determination or redetermine the net  
14 amount of the consumptive use portion of the exercise of such  
15 Overlying Right by said Overlying Rights Producer.

16 C. INJUNCTION

17 22. Injunction Against Unauthorized Production. (Prior  
18 Judgment Section 15) Effective July 1, 1973, each and every  
19 party, its officers, agents, employees, successors and assigns,  
20 to whom rights to waters of the Basin or Relevant Watershed have  
21 been declared and decreed herein is ENJOINED AND RESTRAINED from  
22 Producing water for Direct Use from the Basin or the Relevant  
23 Watershed except pursuant to rights and Pumpers' Shares herein  
24 decreed or which may hereafter be acquired by transfer pursuant  
25 to Section 55, or under the provisions of the Physical Solution  
26 in this Judgment and the Court's continuing jurisdiction,  
27 provided that no party is enjoined from Producing up to five (5)  
28 acre feet per Fiscal Year.

1           23. Injunction re Non-consumptive Uses. (Prior Judgment  
2 Section 16) Each party listed in Exhibit "G", its officers,  
3 agents, employees, successors and assigns, is ENJOINED AND  
4 RESTRAINED from materially changing said non-consumptive method  
5 of use.

6           24. Injunction Re Change in Overlying Use Without Notice  
7 Thereof To Watermaster. (Prior Judgment Section 16.5) Each  
8 party listed in Exhibit "K", its officers, agents, employees,  
9 successors and assigns, is ENJOINED AND RESTRAINED from  
10 materially changing said overlying uses at any time without  
11 first notifying Watermaster of the intended change of use, in  
12 which event Watermaster shall promptly redetermine the  
13 consumptive use portion thereof to be effective after such  
14 change.

15           25. Injunction Against Unauthorized Recharge. (Prior  
16 Judgment Section 17) Each party, its officers, agents,  
17 employees, successors and assigns, is ENJOINED AND RESTRAINED  
18 from spreading, injecting or otherwise recharging water in the  
19 Basin except pursuant to: (a) an adjudicated non-consumptive  
20 use, or (b) consent and approval of or Cyclic Storage Agreement  
21 with Watermaster, or (c) subsequent order of this Court.

22           26. Injunction Against Transportation From Basin or  
23 Relevant Watershed. (Prior Judgment Section 18) Except upon  
24 further order of Court, all parties, other than Transporting  
25 Parties and MWD in its exercise of its Special Category Rights,  
26 to the extent authorized therein, are ENJOINED AND RESTRAINED  
27 from transporting water hereafter Produced from the Relevant  
28 Watershed or Basin outside the areas thereof. For purposes of

1 this Section, water supplied through a city water system which  
2 lies chiefly within the Basin shall be deemed entirely used  
3 within the Basin. Transporting Parties are entitled to continue  
4 to transport water to the extent that any Production of water by  
5 any such party does not violate the injunctive provisions  
6 contained in Section 22 hereof; provided that said water shall  
7 be used within the present service areas or corporate or other  
8 boundaries and additions thereto so long as such additions are  
9 contiguous to the then existing service area or corporate or  
10 other boundaries; except that a maximum of ten percent (10%) of  
11 use in any Fiscal Year may be outside said then existing service  
12 areas or corporate or other boundaries.

13 D. CONTINUING JURISDICTION

14 27. Jurisdiction Reserved. (Prior Judgment Section 19)  
15 Full jurisdiction, power and authority are retained by and  
16 reserved to the Court for purposes of enabling the Court upon  
17 application of any party or of the Watermaster, by motion and  
18 upon at least thirty (30) days notice thereof, and after hearing  
19 thereon, to make such further or supplemental orders or  
20 directions as may be necessary or appropriate for interim  
21 operation before the Physical Solution is fully operative, or  
22 for interpretation, enforcement or carrying out of this  
23 Judgment, and to modify, amend or amplify any of the provisions  
24 of this Judgment or to add to the provisions thereof consistent  
25 with the rights herein decreed. Provided, that nothing in this  
26 paragraph shall authorize:

27 (1) modification or amendment of the quantities  
28 specified in the declared rights of any party;

1 (2) modification or amendment of the manner of  
2 exercise of the Base Annual Diversion Right or Integrated  
3 Production Right of any party; or

4 (3) the imposition of an injunction prohibiting  
5 transportation outside the Relevant Watershed or Basin as  
6 against any Transporting Party transporting in accordance  
7 with the provisions of this Judgment or against MWD as to  
8 its Special Category Rights.

9 E. WATERMASTER

10 28. Watermaster to Administer Judgment. (Prior Judgment  
11 Section 20) A Watermaster comprised of nine (9) persons, to be  
12 nominated as hereinafter provided and appointed by the Court,  
13 shall administer and enforce the provisions of this Judgment and  
14 any subsequent instructions or orders of the Court thereunder.

15 29. Qualification, Nomination and Appointment. (Prior  
16 Judgment Section 21) The nine (9) member Watermaster shall be  
17 composed of six (6) Producer representatives and three (3)  
18 public representatives qualified, nominated and appointed as  
19 follows:

20 (a) Qualification. Any adult citizen of the State of  
21 California shall be eligible to serve on Watermaster;  
22 provided, however, that no officer, director, employee or  
23 agent of Upper District or San Gabriel District shall be  
24 qualified as a Producer member of Watermaster.

25 (b) Nomination of Producer Representatives. A  
26 meeting of all parties shall be held at the regular meeting  
27 of Watermaster in November of each year, at the offices of  
28 Watermaster. Nomination of the six (6) Producer

1 representatives shall be by cumulative voting, in person or  
2 by proxy, with each Producer entitled to one (1) vote for  
3 each one hundred (100) acre feet, or portion thereof, of  
4 Base Annual Diversion Right or Prescriptive Pumping Right  
5 or Integrated Production Right.

6 (c) Nomination of Public Representatives. On or  
7 before the regular meeting of Watermaster in November of  
8 each year, the three (3) public representatives shall be  
9 nominated by the boards of directors of Upper District  
10 (which shall select two [2]) and San Gabriel District  
11 (which shall select one [1]). Said nominees shall be  
12 members of the board of directors of said public districts.

13 (d) Appointment. All Watermaster nominations shall be  
14 promptly certified to the Court, which will in ordinary  
15 course confirm the same by an appropriate order appointing  
16 said Watermaster; provided, however, that the Court at all  
17 times reserves the right and power to refuse to appoint, or  
18 to remove, any member of Watermaster.

19 30. Term and Vacancies. (Prior Judgment Section 22) Each  
20 member of Watermaster shall serve for a one (1) year term  
21 commencing on January 1, following his appointment, or until his  
22 successor is appointed. In the event of a vacancy on  
23 Watermaster, a successor shall be nominated at a special meeting  
24 to be called by Watermaster within ninety (90) days (in the case  
25 of a Producer representative) or by action of the appropriate  
26 district board of directors (in the case of a public  
27 representative).

28 31. Quorum. (Prior Judgment Section 23) Five (5) members

1 of the Watermaster shall constitute a quorum for the transaction  
2 of affairs of the Watermaster. Action by the affirmative vote  
3 of five (5) members shall constitute action by Watermaster,  
4 except that the affirmative vote of six (6) members shall be  
5 required:

6 (a) to approve the purchase, spreading or injection of  
7 water for Ground Water recharge, or

8 (b) to enter in any Agreement pursuant to Section  
9 34 (m) hereof.

10 32. Compensation. (Prior Judgment Section 24) Each  
11 Watermaster member shall receive compensation of One Hundred  
12 Dollars (\$100.00) per day for each day's attendance at meetings  
13 of Watermaster or for each day's service rendered as a  
14 Watermaster member at the request of Watermaster, together with  
15 any expenses incurred in the performance of his duties required  
16 or authorized by Watermaster. No member of the Watermaster  
17 shall be employed by or compensated for professional services  
18 rendered by him to Watermaster, other than the compensation  
19 herein provided, and any authorized travel or related expense.

20 33. Organization. (Prior Judgment Section 25) At its  
21 first meeting in each year, Watermaster shall elect a chairman  
22 and a vice chairman from its membership. It shall also select a  
23 secretary, a treasurer and such assistant secretaries and  
24 assistant treasurers as may be appropriate, any of whom may, but  
25 need not be, members of Watermaster.

26 (a) Minutes. Minutes of all Watermaster meetings  
27 shall be kept which shall reflect all actions taken by  
28 Watermaster. Draft copies thereof shall be furnished to

1 any party who files a request therefor in writing with  
2 Watermaster. Said draft copies of minutes shall constitute  
3 notice of any Watermaster action therein reported; failure  
4 to request copies thereof shall constitute waiver of  
5 notice.

6 (b) Regular Meetings. Watermaster shall hold regular  
7 meetings at places and times to be specified in  
8 Watermaster's rules and regulations to be adopted by  
9 Watermaster. Notice of the scheduled or regular meetings  
10 of Watermaster and of any changes in the time or place  
11 thereof shall be mailed to all parties who shall have filed  
12 a request therefor in writing with Watermaster.

13 (c) Special Meetings. Special meetings of  
14 Watermaster may be called at any time by the chairman or  
15 vice chairman or by any three (3) members of Watermaster by  
16 written notice delivered personally or mailed to each  
17 member of Watermaster and to each party requesting notice,  
18 at least twenty-four (24) hours before the time of each  
19 such meeting in the case of personal delivery, and forty-  
20 eight (48) hours prior to such meeting in the case of mail.  
21 The calling notice shall specify the time and place of the  
22 special meeting and the business to be transacted at such  
23 meeting. No other business shall be considered at such  
24 meeting.

25 (d) Adjournments. Any meeting of Watermaster may be  
26 adjourned to a time and place specified in the order of  
27 adjournment. Less than a quorum may so adjourn from time  
28 to time. A copy of the order or notice of adjournment

1 shall be conspicuously posted on or near the door of the  
2 place where the meeting was held within twenty-four (24)  
3 hours after adoption of the order of adjournment.

4 34. Powers and Duties. (Prior Judgment Section 26)

5 Subject to the continuing supervision and control of the Court,  
6 Watermaster shall have and may exercise the following express  
7 powers, and shall perform the following duties, together with  
8 any specific powers, authority and duties granted or imposed  
9 elsewhere in this Judgment or hereafter ordered or authorized by  
10 the Court in the exercise of its continuing jurisdiction.

11 (a) Rules and Regulations. To make and adopt any and  
12 all appropriate rules and regulations for conduct of  
13 Watermaster affairs. A copy of said rules and regulations  
14 and any amendments thereof shall be mailed to all parties.

15 (b) Acquisition of Facilities. To purchase, lease,  
16 acquire and hold all necessary property and equipment;  
17 provided, however, that Watermaster shall not acquire any  
18 interest in real property in excess of year-to-year tenancy  
19 for necessary quarters and facilities.

20 (c) Employment of Experts and Agents. To employ such  
21 administrative personnel, engineering, geologic,  
22 accounting, legal or other specialized services and  
23 consulting assistants as may be deemed appropriate in  
24 the carrying out of its powers and to require appropriate  
25 bonds from all officers and employees handling Watermaster  
26 funds.

27 (d) Measuring Devices, etc. To cause parties,  
28 pursuant to uniform rules, to install and maintain in good

1 operating condition, at the cost of each party, such  
2 necessary measuring devices or meters as may be  
3 appropriate; and to inspect and test any such measuring  
4 device as may be necessary.

5 (e) Assessments. To levy and collect all Assessments  
6 specified in the Physical Solution.

7 (f) Investment of Funds. To hold and invest any and  
8 all funds which Watermaster may possess in investments  
9 authorized from time to time for public agencies in the  
10 State of California.

11 (g) Borrowing. To borrow in anticipation of receipt  
12 of Assessment proceeds an amount not to exceed the annual  
13 amount of Assessments levied but uncollected.

14 (h) Purchase of and Recharge with Supplemental Water.  
15 To purchase Supplemental Water and to introduce the same  
16 into the Basin for replacement or cyclic storage purposes,  
17 subject to the affirmative vote of six (6) members of  
18 Watermaster.

19 (i) Contracts. To enter into contracts for the  
20 performance of any administrative powers herein granted,  
21 subject to approval of the Court.

22 (j) Cooperation With Existing Agencies. To act  
23 jointly or cooperate with agencies of the United States and  
24 the State of California or any political subdivision,  
25 municipality or district to the end that the purposes of  
26 the Physical Solution may be fully and economically carried  
27 out. Specifically, in the event Upper District has  
28 facilities available and adequate to accomplish any of the

1 administrative functions of Watermaster, consideration  
2 shall be given to performing said functions under contract  
3 with Upper District in order to avoid duplication of  
4 facilities.

5 (k) Assumption of Make-up Obligation. Watermaster  
6 shall assume the Make-up Obligation for and on behalf of  
7 the Basin.

8 (m) Water Quality. Water quality in the Basin shall  
9 be a concern of Watermaster, and all reasonable steps shall  
10 be taken to assist and encourage appropriate regulatory  
11 agencies to enforce reasonable water quality regulations  
12 affecting the Basin, including regulation of solid and  
13 liquid waste disposal.

14 (n) Cyclic Storage Agreements. To enter into  
15 appropriate contracts, to be approved by the Court, for  
16 utilization of Ground Water storage capacity of the Basin  
17 for cyclic or regulatory storage of Supplemental Water by  
18 parties and non-parties, for subsequent recovery or  
19 Watermaster credit by the storing entity, pursuant to  
20 uniform rules and conditions, which shall include provision  
21 for:

22 (1) Watermaster control of all spreading or  
23 injection and extraction scheduling and procedures for  
24 such stored water;

25 (2) calculation by Watermaster of any special  
26 costs, damages or burdens resulting from such  
27 operations;

28 (3) determination by Watermaster of, and

1 accounting for, all losses in stored water, assuming  
2 that such stored water floats on top of the Ground  
3 Water supplies, and accounting for all losses of water  
4 which otherwise would have replenished the Basin, with  
5 priorities being established as between two or more  
6 such contractors giving preference to parties over  
7 non-parties; and

8 (4) payment to Watermaster for the benefit of the  
9 parties hereto of all special costs, damages or  
10 burdens incurred (without any charge, rent, assessment  
11 or expense as to parties hereto by reason of the  
12 adjudicated proprietary character of said storage  
13 rights, nor credit or offset for benefits resulting  
14 from such storage); provided, that no party shall have  
15 any direct interest in or control over such contracts  
16 or the operation thereof by reason of the adjudicated  
17 right of such party, the Watermaster having sole  
18 custody and control of all Ground Water storage rights  
19 in the Basin pursuant to the Physical Solution herein,  
20 and subject to review of the Court.

21 (o) Notice List. Maintain a current list of party  
22 designees to receive notice hereunder, in accordance with  
23 Section 54 hereof.

24 35. Policy Decisions -- Procedure. (Prior Judgment  
25 Section 27) It is contemplated that Watermaster will exercise  
26 discretion in making policy decisions relating to Basin  
27 management under the Physical Solution decreed herein. In order  
28 to assure full participation and opportunity to be heard for

1 those affected, no policy decision shall be made by Watermaster  
2 until thirty (30) days after the question involved has been  
3 raised for discussion at a Watermaster meeting and noted in the  
4 draft of minutes thereof.

5 36. Reports. (Prior Judgment Section 28) Watermaster  
6 shall annually file with the Court and mail to the parties a  
7 report of all Watermaster activities during the preceding year,  
8 including an audited statement of all accounts and financial  
9 activities of Watermaster, summary reports of Diversions and  
10 Pumping, and all other pertinent information. To the extent  
11 practical, said report shall be mailed to all parties on or  
12 before November 1.

13 37. Review Procedures. (Prior Judgment Section 29)  
14 Any action, decision, rule or procedure of Watermaster (other  
15 than a decision establishing Operating Safe Yield, see Section  
16 43[c]) shall be subject to review by the Court on its own motion  
17 or on timely motion for an Order to Show Cause by any party, as  
18 follows:

19 (a) Effective Date of Watermaster Action. Any order,  
20 decision or action of Watermaster shall be deemed to have  
21 occurred on the date that written notice thereof is mailed.  
22 Mailing of draft copies of Watermaster minutes to the  
23 parties requesting the same shall constitute notice to all  
24 such parties.

25 (b) Notice of Motion. Any party may, by a regularly  
26 noticed motion, petition the Court for review of said  
27 Watermaster's action or decision. Notice of such motion  
28 shall be mailed to Watermaster and all parties. Unless so

1 ordered by the Court, such petition shall not operate to  
2 stay the effect of such Watermaster action.

3 (c) Time for Motion. Notice of motion to review any  
4 Watermaster action or decision shall be served and filed  
5 within ninety (90) days after such Watermaster action or  
6 decision.

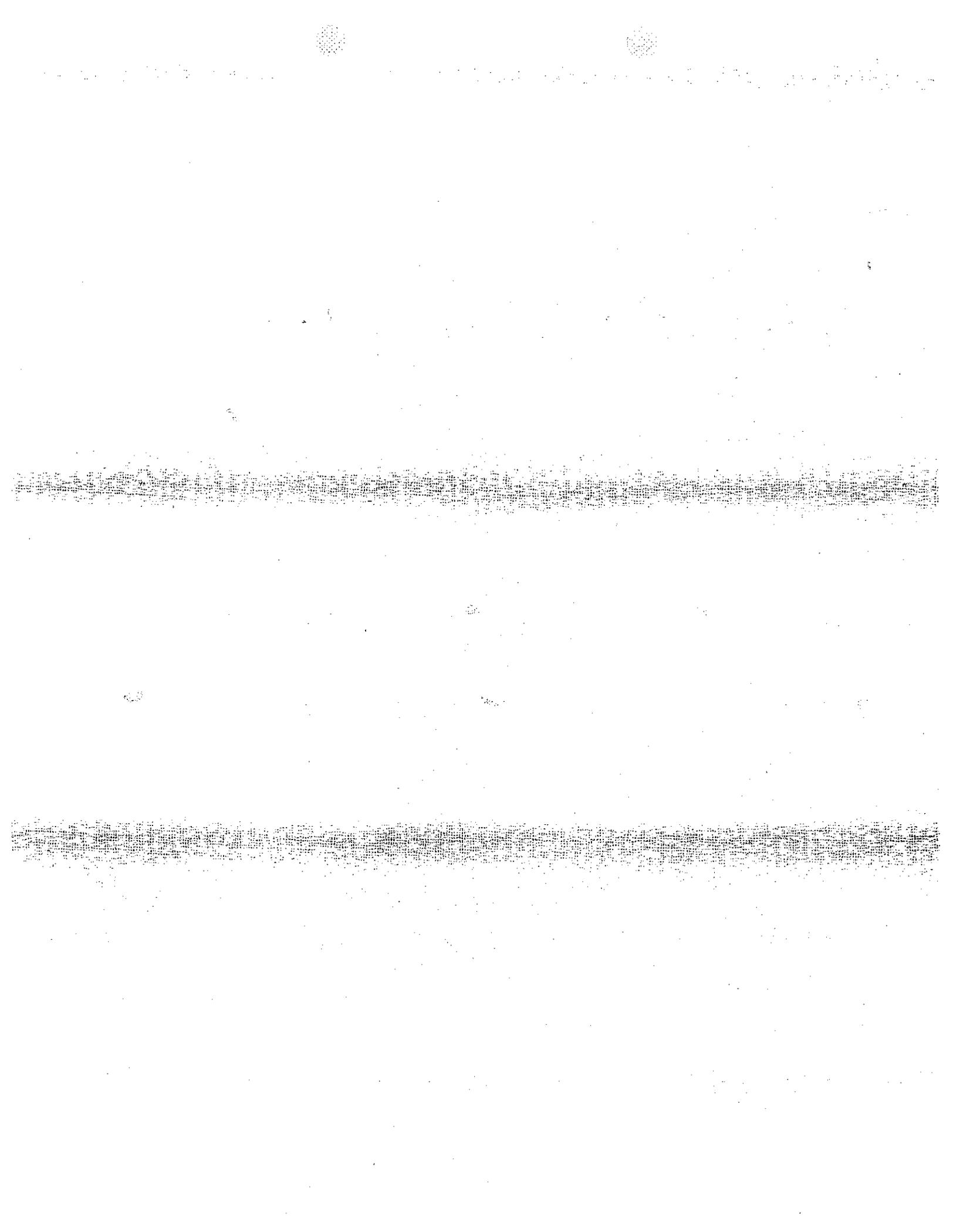
7 (d) De Novo Nature of Proceeding. Upon filing of such  
8 motion for hearing, the Court shall notify the parties of a  
9 date for taking evidence and argument, and shall review de  
10 novo the question at issue on the date designated. The  
11 Watermaster decision or action shall have no evidentiary  
12 weight in such proceeding.

13 (e) Decision. The decision of the Court in such  
14 proceeding shall be an appealable Supplemental Order in  
15 this case. When the same is final, it shall be binding  
16 upon the Watermaster and the parties.

#### 17 F. PHYSICAL SOLUTION

18 38. Purpose and Objective. (Prior Judgment Section 30)  
19 Consistent with the California Constitution and the decisions of  
20 the Supreme Court, the Court hereby adopts and Orders the  
21 parties to comply with this Physical Solution. The purpose and  
22 objective of these provisions is to provide a legal and  
23 practical means for accomplishing the most economic, long term,  
24 conjunctive utilization of surface, Ground Water, Supplemental  
25 Water and Ground Water storage capacity to meet the needs and  
26 requirements of the water users dependent upon the Basin and  
27 Relevant Watershed, while preserving existing equities.

28 39. Need for Flexibility. (Prior Judgment Section 31) In

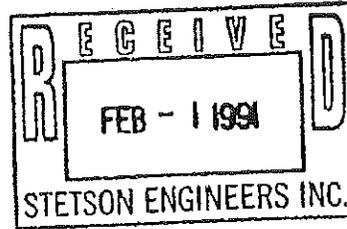




1 Ralph B. Helm - Bar No. 022004  
2 4605 Lankershim Boulevard, #214  
3 North Hollywood, CA 91602

4 Telephone (818) 769-2002

5 Attorney for Watermaster - Petitioner



6  
7  
8 SUPERIOR COURT OF CALIFORNIA, COUNTY OF LOS ANGELES  
9

10 UPPER SAN GABRIEL VALLEY ) No. 924129  
11 MUNICIPAL WATER DISTRICT, )  
12 Plaintiff, ) ORDER AMENDING JUDGMENT TO  
13 vs. ) TO INCLUDE MAINTENANCE,  
14 CITY OF ALHAMBRA, et al., ) IMPROVEMENT, AND CONTROL OF  
15 Defendants. ) BASIN WATER QUALITY WITH  
16 ) ALLOWABLE FUNDING THROUGH  
17 ) IN-LIEU ASSESSMENTS  
18 ) Hearing: August 7, 1990  
19 ) Department 38, 9:15 A. M.

20 The Petition of the Main San Gabriel Basin Watermaster  
21 (Watermaster) for Amendment to Judgment herein to expand its  
22 powers to include maintenance, improvement, and control of Basin  
23 water quality by controlling pumping in the Basin, with  
24 allowable funding for associated costs to be paid through its  
25 In-Lieu Assessments, was continued on July 31, 1990, to August  
26 7, 1990, when it duly and regularly came on for hearing, at 9:15  
27 o'clock A. M. in Department 38 of the above entitled Court, the  
28 Honorable FLORENCE T. PICKARD, Assigned Judge Presiding. Ralph  
B. Helm appeared as Attorney for Watermaster - Petitioner; Wayne  
K. Lemieux appeared for Defendant, San Gabriel Valley Municipal  
Water District, in support of the Petition; Fred Vendig, General

1 Counsel, Karen L. Tachiki, Assistant General Counsel, and  
2 Victor E. Gleason, Senior Deputy General Counsel, by Victor E.  
3 Gleason, appeared for Defendant, The Metropolitan Water District  
4 of Southern California, in support of the Petition; Timothy J.  
5 Ryan appeared for Defendant, San Gabriel Valley Water Company,  
6 in opposition to the Petition; Lagerlof, Senecal, Drescher &  
7 Swift, by H. Jess Senecal, appeared for Defendants, Calmat  
8 Company, Livingston-Graham, Owl Rock Products, AZ-Two, Inc., and  
9 Sully-Miller Contracting Company, in opposition to the Petition;  
10 Ira Reiner, Los Angeles County District Attorney, by Jan  
11 Chatten-Brown, Special Assistant to the District Attorney,  
12 appeared in opposition to the Petition; and Sarah F. Bates and  
13 Laurens H. Silver, by Sarah F. Bates, appeared on behalf of  
14 Amicus Curiae Sierra Club, in opposition to the Petition.

15 The Court acknowledged receipt and consideration of:  
16 letters in support of the Petition by the California Regional  
17 Water Quality Control Board - Los Angeles Region and by the  
18 State Water Resources Control Board; a copy of a letter  
19 addressed to the Attorney for Petitioner, from the US  
20 Environmental Protection Agency - Region IX, by Mark J.  
21 Klaiman, Assistant Regional Counsel, regarding several matters  
22 of federal law which EPA believed might ultimately affect the  
23 subject Petition; a letter in opposition to the Petition by East  
24 Valleys Organization; and a FAX communication to the Court, in  
25 opposition to the Petition, from Congressman Esteban E. Torres,  
26 which was not communicated to nor seen by the parties.

27 Members of the public, present in Court, were invited to,  
28 and did, present oral testimony during the hearing.

1 Under date of December 10, 1990 the Court entered its  
2 Intended Decision Re Amendment To Judgment and, by minute order  
3 duly entered and mailed to Counsel for Petitioner, ordered  
4 copies thereof mailed forthwith to all appearing parties,  
5 including those appearing as friends of the court, and to all  
6 other affected parties on the case's current mailing list.

7 A Proof Of Service by mail on December 13, 1990, Of  
8 Intended Decision Re Amendment To Judgment, as ordered, has been  
9 filed with the Court.

10 Opposition to Petitioner's Proposed Order were filed by  
11 Amicus Curiae Sierra Club, Amicus Curiae Los Angeles District  
12 Attorney, and by Producer Parties Calmat Co., Livingston-Graham,  
13 Owl Rock Products Company, AZ-Two, Inc., and Sully-Miller  
14 Contracting Company.

15 Proof being made to the satisfaction of the Court and good  
16 cause appearing:

17 IT IS, HEREBY, ORDERED:

18 1. That the Amended Judgment herein be further amended by  
19 amending Subsection (j) of Section 10 thereof, Definitions, and  
20 Section 40 thereof, Division F, Physical Solution, to read as  
21 follows:

22 "10 (j) In-Lieu Water Cost - - The differential between a  
23 particular Producer's cost of Watermaster directed produced,  
24 treated, blended, substituted, or Supplemental Water delivered  
25 or substituted to, for, or taken by, such Producer in-lieu of  
26 his cost of otherwise normally Producing a like amount of Ground  
27 Water from the Basin.

28 "40. Watermaster Control. (Prior Judgment Section 32)

1 In order to develop an adequate and effective program of Basin  
2 management, it is essential that Watermaster have broad  
3 discretion in the making of Basin management decisions within  
4 the ambit hereinafter set forth. The maintenance, improvement,  
5 and control of the water quality and quantity of the Basin,  
6 withdrawal and replenishment of supplies of the Basin and  
7 Relevant Watershed, and the utilization of the water resources  
8 thereof, must be subject to procedures established by  
9 Watermaster in implementation of the Physical Solution  
10 provisions of this Judgment. Both the quantity and quality of  
11 said water resource are thereby preserved and its beneficial  
12 utilization maximized.

13 "(a) Watermaster shall develop an adequate and effective  
14 program of Basin management. The maintenance, improvement, and  
15 control of the water quality and quantity of the Basin,  
16 withdrawal and replenishment of supplies of the Basin and  
17 Relevant Watershed, and the utilization of the water resources  
18 thereof, must be subject to procedures established by  
19 Watermaster in implementation of the Physical Solution  
20 provisions of this Judgment. All Watermaster programs and  
21 procedures shall be adopted only after a duly noticed public  
22 hearing pursuant to Sections 37 and 40 of the Amended Judgment  
23 herein.

24 "(b) Watermaster shall have the power to control pumping in  
25 the Basin by water Producers therein for Basin cleanup and water  
26 quality control so that specific well production can be directed  
27 as to a lesser amount, to total cessation, as to an increased  
28 amount, and even to require pumping in a new location in the

1 Basin. Watermaster's right to regulate pumping activities of  
2 Producers shall be subordinate to any conflicting Basin cleanup  
3 plan established by the EPA or other public governmental agency  
4 with responsibility for ground water management or clean up.

5 "(c) Watermaster may act individually or participate with  
6 others to carry on technical and other necessary investigations  
7 of all kinds and collect data necessary to carry out the herein  
8 stated purposes. It may engage in contractual relations with  
9 the EPA or other agencies in furtherance of the clean up of the  
10 Basin and enter into contracts with agencies of the United  
11 States, the State of California, or any political subdivision,  
12 municipality, or district thereof, to the extent allowed under  
13 applicable federal or state statutes. Any cooperative agreement  
14 between the Watermaster and EPA shall require the approval of  
15 the appropriate Agency(s) of the State of California.

16 "(d) For regulation and control of pumping activity in the  
17 Basin, Watermaster shall adopt Rules and Regulations and  
18 programs to promote, manage and accomplish clean up of the Basin  
19 and its waters, including, but not limited to, measures to  
20 confine, move, and remove contaminants and pollutants. Such  
21 Rules and Regulations and programs shall be adopted only after a  
22 duly Noticed Public Hearing by Watermaster and shall be subject  
23 to Court review pursuant to Section 37 of the Amended Judgment  
24 herein.

25 "(e) Watermaster shall determine whether funds from local,  
26 regional, state or federal agencies are available for regulating  
27 pumping and the various costs associated with, or arising from  
28 such activities. If no public funds are available from local,

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regional, state, or federal agencies, the costs shall be obtained and paid by way of an In-Lieu Assessment by Watermaster pursuant to Section 10 (j) of the Amended Judgment herein. Provided such In-Lieu Assessments become necessary, the costs shall be borne by all Basin Producers.

"(f) Watermaster is a Court empowered entity with limited powers, created pursuant to the Court's Physical Solution Jurisdiction under Article X, Section 2 of the California Constitution. None of the Powers granted herein to Watermaster shall be construed as designating Watermaster a political subdivision of the State of California or authorizing Watermaster to act as 'lead agency' to administer the federal Superfund for clean up of the Basin."

2. This Amended Judgment shall continue in full force and effect as hereby Ordered and Amended.

Dated: January 29, 1991.

/s/Florence T. Pickard  
FLORENCE T. PICKARD  
Judge of the Superior Court,  
Specially Assigned

1 order that Watermaster may be free to utilize both existing and  
2 new and developing technological, social and economic concepts  
3 for the fullest benefit of all those dependent upon the Basin,  
4 it is essential that the Physical Solution hereunder provide for  
5 maximum flexibility and adaptability. To that end, the Court  
6 has retained continuing jurisdiction to supplement the broad  
7 discretion herein granted to the Watermaster.

8 40. Watermaster Control. (Prior Judgment Section 32) In  
9 order to develop an adequate and effective program of Basin  
10 management, it is essential that Watermaster have broad  
11 discretion in the making of Basin management decisions within  
12 the ambit hereinafter set forth. Withdrawal and replenishment  
13 of supplies of the Basin and Relevant Watershed and the  
14 utilization of the water resources thereof, and of available  
15 Ground Water storage capacity, must be subject to procedures  
16 established by Watermaster in implementation of the provisions  
17 of this Judgment. Both the quantity and quality of said water  
18 resource are thereby preserved and its beneficial utilization  
19 maximized.

20 41. General Pattern of Contemplated Operation. (Prior  
21 Judgment Section 33) In general outline (subject to the  
22 specific provisions hereafter and to Watermaster Operating  
23 Criteria set forth in Exhibit "H"), Watermaster will determine  
24 annually the Operating Safe Yield of the Basin and will notify  
25 each Pumper of his share thereof, stated in acre feet per Fiscal  
26 Year. Thereafter, no party may Produce in any Fiscal Year an  
27 amount in excess of the sum of his Diversion Right, if any, plus  
28 his Pumper's Share of such Operating Safe Yield, or his

1 Integrated Production Right, or the terms of any Cyclic Storage  
2 Agreement, without being subject to Assessment for the purpose  
3 of purchasing Replacement Water. In establishing the Operating  
4 Safe Yield, Watermaster shall follow all physical, economic, and  
5 other relevant parameters provided in the Watermaster Operating  
6 Criteria. Watermaster shall have Assessment powers to raise  
7 funds essential to implement the management plan in any of the  
8 several special circumstances herein described in more detail.

9 42. Basin Operating Criteria. (Prior Judgment Section 34)  
10 Until further order of the Court and in accordance with the  
11 Watermaster Operating Criteria, Watermaster shall not spread  
12 Replacement Water when the water level at the Key Well exceeds  
13 Elevation two hundred fifty (250), and Watermaster shall spread  
14 Replacement Water, insofar as practicable, to maintain the water  
15 level at the Key Well above Elevation two hundred (200).

16 43. Determination of Operating Safe Yield. (Prior  
17 Judgment Section 35) Watermaster shall annually determine the  
18 Operating Safe Yield applicable to the succeeding Fiscal Year  
19 and estimate the same for the next succeeding four (4) Fiscal  
20 Years. In making such determination, Watermaster shall be  
21 governed in the exercise of its discretion by the Watermaster  
22 Operating Criteria. The procedures with reference to said  
23 determination shall be as follows:

24 (a) Preliminary Determination. On or before  
25 Watermaster's first meeting in April of each year,  
26 Watermaster shall make a Preliminary Determination of the  
27 Operating Safe Yield of the Basin for each of the  
28 succeeding five Fiscal Years. Said determination shall be

1 made in the form of a report containing a summary statement  
2 of the considerations, calculations and factors used by  
3 Watermaster in arriving at said Operating Safe Yield.

4 (b) Notice and Hearing. A copy of said Preliminary  
5 Determination and report shall be mailed to each Pumper and  
6 Integrated Producer at least ten (10) days prior to a  
7 hearing to be held at Watermaster's regular meeting in May,  
8 of each year, at which time objections or suggested  
9 corrections or modifications of said determinations shall  
10 be considered. Said hearing shall be held pursuant to  
11 procedures adopted by Watermaster.

12 (c) Watermaster Determination and Review Thereof.  
13 Within thirty (30) days after completion of said hearing,  
14 Watermaster shall mail to each Pumper and Integrated  
15 Producer a final report and determination of said Operating  
16 Safe Yield for each such Fiscal Year, together with a  
17 statement of the Producer's entitlement in each such Fiscal  
18 Year stated in acre feet. Any affected party, within  
19 thirty (30) days of mailing of notice of said Watermaster  
20 determination, may, by a regularly noticed motion, petition  
21 the Court for an Order to Show Cause for review of said  
22 Watermaster finding, and thereupon the Court shall hear  
23 such objections and settle such dispute. Unless so ordered  
24 by the Court, such petition shall not operate to stay the  
25 effect of said report and determination. In the absence of  
26 such review proceedings, the Watermaster determination  
27 shall be final.

28 44. Reports of Pumping and Diversion. (Prior Judgment

1 Section 36) Each party (other than Minimal Producers) shall  
2 file with the Watermaster quarterly, on or before the last day  
3 of January, April, July and October, a report on a form to be  
4 prescribed by Watermaster showing the total Pumping and  
5 Diversion (separately for Direct Use and for non-consumptive  
6 use, if any,) of such party during the preceding calendar  
7 quarter.

8 45. Assessments -- Purpose. (Prior Judgment Section 37)  
9 Watermaster shall have the power to levy and collect Assessments  
10 from the parties (other than Minimal Producers, non-consumptive  
11 users, or Production under Special Category Rights or Cyclic  
12 Storage Agreements) based upon Production during the preceding  
13 Fiscal Year. Said Assessments may be for one or more of the  
14 following purposes:

15 (a) Watermaster Administration Costs. Within thirty  
16 (30) days after completion of the hearing on the  
17 Preliminary Determination of the Operating Safe Yield of  
18 the Basin and Watermaster's determination thereof, pursuant  
19 to Section 43 hereof, Watermaster shall adopt a proposed  
20 budget for the succeeding Fiscal Year and shall mail a copy  
21 thereof to each party, together with a statement of the  
22 level of Administration Assessment levied by Watermaster  
23 which will be collected for purposes of raising funds for  
24 said budget. Said Assessment shall be uniformly applicable  
25 to each acre foot of Production.

26 (b) Replacement Water Costs. Replacement Water  
27 Assessments shall be collected from each party on account  
28 of such party's Production in excess of its Diversion

1 Rights, Pumper's Share or Integrated Production Right, and  
2 on account of the consumptive use portion of Overlying  
3 Rights, computed at the applicable rate established by  
4 Watermaster consistent with the Watermaster Operating  
5 Criteria.

6 (c) Make-Up Obligation. An Assessment shall be  
7 collected equally on account of each acre foot of  
8 Production, which does not bear a Replacement Assessment  
9 hereunder, to pay all necessary costs of Administration and  
10 satisfaction of the Make-Up Obligation. Such Assessment  
11 shall not be applicable to water Production for an  
12 Overlying Right.

13 (d) In-Lieu Water Cost. Watermaster may levy an  
14 Assessment against all Pumping to pay reimbursement for In-  
15 Lieu Water Costs except that such Assessment shall not be  
16 applicable to the non-consumptive use portion of an  
17 Overlying Right.

18 (e) Basin Water Quality Improvement. For purposes of  
19 testing, protecting or improving the water quality in the  
20 Basin, Watermaster may, after a noticed hearing thereon,  
21 fix terms and conditions under which it may waive all or  
22 any part of its Assessments on such ground water  
23 Production and if such Production, in addition to his other  
24 Production, does not exceed such Producer's Share or  
25 entitlement for that Fiscal Year, such stated Production  
26 shall be allowed to be carried over for a part of such  
27 Producer's next Fiscal Year's Producer's Share or  
28 entitlement. In connection therewith, Watermaster may also

1 waive the provisions of Sections 25, 26 and 57 hereof,  
2 relating to Injunction Against Unauthorized Recharge,  
3 Injunction Against Transportation From Basin or Relevant  
4 Watershed, and Intervention After Judgment, respectively.  
5 Nothing in this Judgment is intended to allow an increase  
6 in any Producer's annual entitlement nor to prevent  
7 Watermaster, after hearing thereon, from entering into  
8 contracts to encourage, assist and accomplish the clean up  
9 and improvement of degraded water quality in the Basin by  
10 non-parties herein. Such contracts may include the  
11 exemption of the Production of such Basin water therefor  
12 from Watermaster Assessments and, in connection therewith,  
13 the waiver of the provisions of Judgment Sections 25, 26,  
14 and 57 hereof.

15 46. Assessments -- Procedure. (Prior Judgment Section 38)

16 Assessments herein provided for shall be levied and collected  
17 as follows:

18 (a) Levy and Notice of Assessment. Within thirty  
19 (30) days of Watermaster's annual determination of  
20 Operating Safe Yield of the Basin for each Fiscal Year and  
21 succeeding four (4) Fiscal Years, Watermaster shall levy  
22 applicable Administration Assessments, Replacement Water  
23 Assessments, Make-up Water Assessments and In-Lieu Water  
24 Assessments, if any. Watermaster shall give written notice  
25 of all applicable Assessments to each party on or before  
26 August 15, of each year.

27 (b) Payment. Each Assessment shall be payable, and  
28 each party is Ordered to pay the same, on or before

1 September 20, following such Assessment, subject to the  
2 rights reserved in Section 37 hereof.

3 (c) Delinquency. Any Assessment which becomes  
4 delinquent after January 1, 1980, shall bear interest at  
5 the annual prime rate plus one percent (1%) in effect on  
6 the first business day of August of each year. Said prime  
7 interest rate shall be that fixed by the Bank of America  
8 NT&SA for its preferred borrowing customers on said date.  
9 Said prime interest rate plus one percent (1%) shall be  
10 applicable to any said delinquent Assessment from the due  
11 date thereof until paid. Provided, however, in no event  
12 shall any said delinquent Assessment bear interest at a  
13 rate of less than ten percent (10%) per annum. Such  
14 delinquent Assessment and interest may be collected in a  
15 Show Cause proceeding herein or any other legal proceeding  
16 instituted by Watermaster, and in such proceeding the Court  
17 may allow Watermaster its reasonable costs of collection,  
18 including attorney's fees.

19 47. Availability of Supplemental Water From Responsible  
20 Agencies. (Prior Judgment Section 39) If any Responsible  
21 Agency shall, for any reason, be unable to deliver Supplemental  
22 Water to Watermaster when needed, Watermaster shall collect  
23 funds at an appropriate level and hold them in trust, together  
24 with interest accrued thereon, for purchase of such water when  
25 available.

26 48. Accumulation of Replacement Water Assessment Proceeds.  
27 (Prior Judgment Section 40) In order to minimize fluctuation  
28 in Assessments and to give Watermaster flexibility in Basin

1 management, Watermaster may make reasonable accumulations of  
2 Replacement Water Assessments. Such moneys and any interest  
3 accrued thereon shall only be used for the purchase of  
4 Replacement Water.

5 49. Carry-over of Unused Rights. (Prior Judgment Section  
6 41) Any Pumper's Share of Operating Safe Yield, and the  
7 Production right of any Integrated Producer, which is not  
8 Produced in a given Fiscal Year may be carried over and  
9 accumulated for one Fiscal Year, pursuant to reasonable rules  
10 and procedures for notice and accounting which shall be adopted  
11 by Watermaster. The first water Produced in the succeeding  
12 Fiscal Year shall be deemed Produced pursuant to such Carry-over  
13 Rights.

14 50. Minimal Producers. (Prior Judgment Section 42) In  
15 the interest of Justice, Minimal Producers are exempted from the  
16 operation of this Physical Solution, so long as such party's  
17 annual Production does not exceed five (5) acre feet. Quarterly  
18 Production reports by such parties shall not be required, but  
19 Watermaster may require, and Minimal Producers shall furnish,  
20 specific periodic reports. In addition, Watermaster may conduct  
21 such investigation of future operations of any Minimal Producer  
22 as may be appropriate.

23 51. Effective Date. (Prior Judgment Section 43) The  
24 effective date for commencing accounting and operation under  
25 this Physical Solution, other than for Replacement Water  
26 Assessments, shall be July 1, 1972. The first Assessment for  
27 Replacement Water shall be payable on September 20, 1974, on  
28 account of Fiscal Year 1973-74 Production.

1 G. MISCELLANEOUS PROVISIONS

2 52. Puente Narrows Flow. (Prior Judgment Section 44)

3 The Puente Basin is tributary to the Main San Gabriel Basin.  
4 All Producers within said Puente Basin have been dismissed  
5 herein, based upon the Puente Narrows Agreement (Exhibit "J"),  
6 whereby Puente Basin Water Agency agreed not to interfere with  
7 surface inflow and to assure continuance of historic subsurface  
8 contribution of water to Main San Gabriel Basin. The Court  
9 declares said Agreement to be reasonable and fair and in full  
10 satisfaction of claims by Main San Gabriel Basin for natural  
11 water from Puente Basin.

12 53. San Gabriel District - Interim Order. (Prior Judgment

13 Section 45) San Gabriel District has a contract with the State  
14 of California for State Project Water, delivered at Devil Canyon  
15 in San Bernardino County. San Gabriel District is HEREBY  
16 ORDERED to proceed with and complete necessary pipeline  
17 facilities as soon as practical.

18 Until said pipeline is built and capable of delivering a  
19 minimum of twenty-eight thousand eight-hundred (28,800) acre  
20 feet of State Project water per year, defendant cities of  
21 Alhambra, Azusa, and Monterey Park shall pay to Watermaster each  
22 Fiscal Year a Replacement Assessment at a uniform rate  
23 sufficient to purchase Replenishment Water when available,  
24 which rate shall be declared by San Gabriel District.

25 When water is available through said pipeline, San Gabriel  
26 District shall make the same available to Watermaster, on his  
27 reasonable demand, at said specified rate per acre foot.

28 Interest accrued on such funds shall be paid to San Gabriel

1 District.

2 54. Service Upon and Delivery to Parties of Various  
3 Papers. (Prior Judgment Section 46) Service of the Judgment  
4 on those parties who have executed the Stipulation for Judgment  
5 shall be made by first class mail, postage prepaid, addressed to  
6 the Designee and at the address designated for that purpose in  
7 the executed and filed counterpart of the Stipulation for  
8 Judgment, or in any substitute designation filed with the Court.

9 Each party who has not heretofore made such a designation  
10 shall, within thirty (30) days after the Judgment shall have  
11 been served upon that party, file with the Court, with proof of  
12 service of a copy thereof upon Watermaster, a written  
13 designation of the person to whom and the address at which all  
14 future notices, determinations, requests, demands, objections,  
15 reports and other papers and processes to be served upon that  
16 party or delivered to that party are to be so served or  
17 delivered.

18 A later substitute designation filed and served in the same  
19 manner by any party shall be effective from the date of filing  
20 as to the then future notices, determinations, requests,  
21 demands, objections, reports and other papers and processes to  
22 be served upon or delivered to that party.

23 Delivery to or service upon any party by Watermaster, by  
24 any other party, or by the Court, of any item required to be  
25 served upon or delivered to a party under or pursuant to the  
26 Judgment may be made by deposit thereof (or by copy thereof) in  
27 the mail, first class, postage prepaid, addressed to the  
28 Designee of the party and at the address shown in the latest

1 designation filed by that party.

2 55. Assignment, Transfer, etc., of Rights. (Prior  
3 Judgment Section 47) Any rights Adjudicated herein except  
4 Overlying Rights, may be assigned, transferred, licensed or  
5 leased by the owners thereof; provided however, that no such  
6 assignment shall be complete until the appropriate notice  
7 procedures established by Watermaster have been complied with.  
8 No water Produced pursuant to rights assigned, transferred,  
9 licensed, or leased may be transported outside the Relevant  
10 Watershed except by:

- 11 (1) a Transporting Party, or
- 12 (2) a successor in interest immediate or mediate to a  
13 water system on lands or portion thereof, theretofore  
14 served by such a Transporting Party, for use by such  
15 successor in accordance with limitations applicable to  
16 Transporting Parties, or
- 17 (3) a successor in interest to the Special Category  
18 rights of MWD.

19 The transfer and use of Overlying Rights shall be  
20 limited, as provided in Section 21 hereof, as exercisable  
21 only on the specifically defined Overlying Lands and they  
22 cannot be separately conveyed or transferred apart therefrom.

23 56. Abandonment of Rights. (Prior Judgment Section 48)  
24 It is in the interest of reasonable beneficial use of the Basin  
25 and its water supply that no party be encouraged to take and use  
26 more water in any Fiscal Year than is actually required.  
27 Failure to Produce all of the water to which a party is entitled  
28 hereunder shall not, in and of itself, be deemed or constitute

1 an abandonment of such party's right, in whole or in part.  
2 Abandonment and extinction of any right herein Adjudicated shall  
3 be accomplished only by:

4 (1) a written election by the party, filed in this  
5 case, or

6 (2) upon noticed motion of Watermaster, and after  
7 hearing.

8 In either case, such abandonment shall be confirmed by  
9 express subsequent order of this Court.

10 57. Intervention After Judgment. (Prior Judgment Section  
11 49) Any person who is not a party or successor to a party and  
12 who proposes to Produce water from the Basin or Relevant  
13 Watershed, may seek to become a party to this Judgment through a  
14 Stipulation For Intervention entered into with Watermaster.  
15 Watermaster may execute said Stipulation on behalf of the other  
16 parties herein but such Stipulation shall not preclude a party  
17 from opposing such Intervention at the time of the Court hearing  
18 thereon. Said Stipulation For Intervention must thereupon be  
19 filed with the Court, which will consider an order confirming  
20 said Intervention following thirty (30) days' notice to the  
21 parties. Thereafter, if approved by the Court, such Intervenor  
22 shall be a party bound by this Judgment and entitled to the  
23 rights and privileges accorded under the Physical Solution  
24 herein.

25 58. Judgment Binding on Successors, etc. (Prior Judgment  
26 Section 50) Subject to specific provisions hereinbefore  
27 contained, this Judgment and all provisions thereof are  
28 applicable to and binding upon and inure to the benefit of not

1 only the parties to this action, but as well to their respective  
2 heirs, executors, administrators, successors, assigns, lessees,  
3 licensees and to the agents, employees and attorneys in fact of  
4 any such persons.

5 59. Water Rights Permits. (Prior Judgment Section 51)  
6 Nothing herein shall be construed as affecting the relative  
7 rights and priorities between MWD and San Gabriel Valley  
8 Protective Association under State Water Rights Permits Nos.  
9 7174 and 7175; respectively.

10 60. Costs. (Prior Judgment Section 52) No party shall  
11 recover any costs in this proceeding from any other party.

12 61. Entry of Judgment. (New) The Clerk shall enter this  
13 Judgment.

14 DATED: August 24, 1989.

15  
16 s/ Florence T. Pickard  
17 Florence T. Pickard, Judge  
18 Specially Assigned  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28



Exhibit "B"

BOUNDARIES OF RELEVANT WATERSHED

The following described property is located in Los Angeles County, State of California:

Beginning at the Southwest corner of Section 14, Township 1 North, Range 11 West, San Bernardino Base and Meridian;

Thence Northerly along the West line of said Section 14 to the Northwest corner of the South half of said Section 14;

Thence Easterly along the North line of the South half of Section 14 to the East line of said Section 14;

Thence Northerly along the East line of said Section 14, Township 1 North, Range 11 West and continuing Northerly along the East line of Section 11 to the Northeast corner of said Section 11;

Thence Easterly along the North line of Section 12 to the Northeast corner of said Section 12;

Thence Southerly along the East line of said Section 12 and continuing Southerly along the East line of Section 13 to the Southeast corner of said Section 13, said corner being also the Southwest corner of Section 18, Township 1 North, Range 10 West;

Thence Easterly along the South line of Sections 18, 17, 16 and 15 of said Township 1 North, Range 10 West to the Southwest corner of Section 14;

Thence Northerly along the West line of Section 14 to the Northwest corner of the South half of Section 14;

Thence Easterly along the North line of the South half of Section 14 to the East line of said section;

Thence Northerly along the East line of said Section 14, and continuing Northerly along the West line of Section 12 of said Township 1 North, Range 10 West to the North line of said Section 12;

Thence Easterly along the North line of said Section 12, to the Northeast corner of said Section 12, said corner being also the Southwest corner of Section 6, Township 1 North, Range 9 West;

Thence Northerly along the West line of said Section 6 and continuing Northerly along West line of Sections 31 and 30, Township 2 North, Range 9 West to the Westerly prolongation of the North line of said Section 30;

Thence Easterly along said Westerly prolongation of the North line of said Section 30 and continuing Easterly along the North line of Section 29 to the Northeast corner of said Section 29;

Thence Southerly along the East line of said Section 29 and continuing Southerly along the East line of Section 32, Township 2 North, Range 9 West, and thence continuing Southerly along the East line of Section 5, Township 1 North, Range 9 West to the Southeast corner of said Section 5;

Thence Westerly along the South line of said Section 5 to the Southwest corner of said Section 5, said point being also the Northwest corner of Section 8;

Thence Southerly along the West line of said Section 8 and continuing Southerly along the West line of Section 17, to the Southwest corner of said Section 17, said corner being also the Northwest corner of Section 20;

Thence Easterly along the North line of Sections 20 and 21 to the Northwest corner of Section 22, said corner being also the Southwest corner of Section 15;

Thence Northerly along the West line of said Section 15 to the Northwest corner of the South half of said Section 15;

Thence Easterly along the North line of said South half of Section 15 to the Northeast corner of said South half of Section 15;

Thence Southerly along the East line of Section 15 and continuing Southerly along the East line of Section 22 to the Southeast corner of said Section 22, said point being also the Southwest corner of Section 23;

Thence Easterly along the South line of Sections 23 and 24 to the East line of the West half of said Section 24;

Thence Northerly along said East line of the West half of Section 24 to the North line thereof;

Thence Easterly along said North line of Section 24 to the Northeast corner thereof, said point also being the Northwest corner of Section 19, Township 1 North, Range 8 West;

Thence continuing Easterly along the North line of Section 19 and Section 20 of said Township 1 North, Range 8 West to the Northeast corner of said Section 20;

Thence Southerly along the East line of Sections 20, 29 and 32 of said Township 1 North, Range 8 West to the Southeast corner of said Section 32;

Thence Westerly along the South line of Section 32 to the Northwest corner of the East half of Section 5, Township 1 South, Range 8 West;

Thence Southerly along the West line of the East half of said Section 5 to the South line of said Section 5;

Thence West to the East line of the Northerly prolongation of Range 9 West;

Thence South  $67^{\circ} 30'$  West to an intersection with the Northerly prolongation of the West line of Section 27, Township 1 South, Range 9 West;

Thence Southerly along the Northerly prolongation of said West line of Section 27 and continuing Southerly along the West line of Section 27 to the Southwest corner of said Section 27, said point being also the Southeast corner of Section 28;

Thence Westerly along the South line and Westerly projection of the South line of said Section 28 to the Northerly prolongation of the West line of Range 9 West;

Thence Southerly along said prolongation of the West line of Range 9 West to the Westerly prolongation of the North line of Township 2 South;

Thence Westerly along said Westerly prolongation of the North line of Township 2 South, a distance of 8,500 feet;

Thence South a distance of 4,500 feet;

Thence West a distance of 10,700 feet;

Thence South 29° West to an intersection with the Northerly prolongation of the West line of Section 20, Township 2 South, Range 10 West;

Thence Southerly along said Northerly prolongation of the West line of said Section 20 and continuing Southerly along the West line of Section 20 to the Southwest corner of said Section 20;

Thence South a distance of 2,000 feet;

Thence West a distance of two miles, more or less, to an intersection with the East line of Section 26, Township 2 South, Range 11 West;

Thence Northerly along said East line of Section 26 and continuing Northerly along the East line of Section 23, Township 2 South, Range 11 West to the Northeast corner of said Section 23;

Thence Westerly along the North line of said Section 23 to the Northwest corner thereof, said point being also the Southeast corner of Section 15, Township 2 South, Range 11 West;

Thence Northerly and Westerly along the East and North lines, respectively, of said Section 15, Township 2 South, Range 11 West, to the Northwest corner thereof; .

Thence continuing Westerly along the Westerly prolongation of said North line of Section 15, Township 2 South, Range 11 West to an intersection with a line parallel to and one mile East of the West line of Range 11 West;

Thence Northerly along said parallel line to an intersection with the Northerly boundary of the City of Pico Rivera as said City of Pico Rivera existed on July 17, 1970;

Thence Westerly along said City boundary to an intersection with the East line of Range 12 West;

Thence Northerly along said East line of Range 12 West to the North line of Township 2 South;

Thence Westerly along the North line of Township 2 South to an intersection with the Southerly prolongation of the East line of the West half of Section 26, Township 1 South, Range 12 West;

Thence Northerly along said Southerly prolongation of said East line of the West half of said Section 26 to the Southeast corner of said West half;

Thence Westerly along the South line of Sections 26, 27 and 28, Township 1 South, Range 12 West, to the Southeast corner of Section 29, Township 1 South, Range 12 West;

Thence Northerly along the East line of said Section 29 to the Northeast corner of the South half of said Section 29;

Thence Westerly along the North line of the South half of said Section 29 to the Northwest corner thereof;

Thence Northerly along the West line of Sections 29, 20, 17 and 8, Township 1 South, Range 12 West;

Thence continuing Northerly along the Northerly prolongation of the West line of Section 8, Township 1 South, Range 12 West to an intersection with the North line of Township 1 South;

Thence Easterly along said North line of Township 1 South to the Northeast corner of Section 3, Township 1 South, Range 12 West;

Thence North  $64^{\circ} 30'$  East to an intersection with the West line of Section 23, Township 1 North, Range 11 West;

Thence Northerly along the West line of said Section 23 to the Northwest corner thereof, said point being the Southwest corner of Section 14, Township 1 North, Range 11 West and said point being also the point of beginning.

Exhibit "C"

TABLE  
SHOWING BASE  
ANNUAL DIVERSION  
RIGHTS OF CERTAIN  
DIVERTERS

	Base Annual Diversion Right <u>Acre-Feet</u>
Covell, Ralph (Successor to Rittenhouse, Catherine and Rittenhouse, James)	2.12
Maddock, A. G.	3.40
Rittenhouse, Catherine (Transferred to Covell, Ralph)	0
Rittenhouse, James (Transferred to Covell, Ralph)	0
Ruebhausen, Arline (Held in common with Ruebhausen, Victor) (Transferred to City of Glendale)	0
Ruebhausen, Victor (See Ruebhausen, Arline, above)	0
TOTAL	<u>5.52</u>

Exhibit "D"

TABLE  
SHOWING PRESCRIPTIVE PUMPING RIGHTS  
AND PUMPER'S SHARE OF EACH PUMPER  
AS OF JUNE, 1988

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share Percent (%)</u>
Adams Ranch Mutual Water Company	100.00	0.05060
A & E Plastik Pak Co., Inc. (Transferred to Industry Properties, Ltd.)	0	0
Alhambra, City of	8,812.05	4.45876
Amarillo Mutual Water Company	709.00	0.35874
Anchor Plating Co., Inc. (Successor to Bodger & Sons) (Transferred to Crown City Plating Co.)	0	0
Anderson, Ray L. and Helen T., Trustees (Successor to Covina-Valley Unified School District)	50.16	0.02538
Andrade, Marcario and Consuelo; and Andrade, Robert and Jayne (Successor to J. F. Isbell Estate, Inc.)	8.36	0.00423
Arcardia, City of (Successor to First National Finance Corporation) (Transferred to City of Monrovia)	9,252.00 60.90 <u>951.00</u> 8,361.90	4.68137 0.03081 <u>0.48119</u> 4.23099
Associated Southern Investment Company (Transferred to Southern California Edison Company)	0	0
AZ-Two, Inc. (Lessee of Southwestern Portland Cement Co.)	.0	0
Azusa, City	3,655.99	1.84988
Azusa-Western Inc. (Transferred to Southwestern Portland Cement Co.)	0	0
Bahnsen & Beckman Ind., Inc. (Transferred to Woodland, Richard)	0	0

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
Bahnsen, Betty M. (Transferred to Dawes, Mary Kay)	0	0
Baldwin Park County Water District (See Valley County Water District)	-	-
Banks, Gale C. (Successor to Doyle, Mr. and Mrs.; and Madruga, Mr. and Mrs.)	50.00	0.02530
Base Line Water Company	430.20	0.21767
Beverly Acres Mutual Water Company	93.00	0.04706
Birenbaum, Max (Held in common with Birenbaum, Sylvia; Schneiderman, Alan; Schneiderman, Lydia; Wigodsky, Bernard; Wigodsky, Estera) (Transferred to City of Whittier)	0	0
Birenbaum, Sylvia (See Birenbaum, Max)	-	-
) Blue Diamond Concrete Materials Div., The Flintkote Company (Transferred to Sully-Miller Contracting Co.)	0	0
Bodger & Sons DBA Bodger Seeds Ltd. (Transferred to Anchor Plating Co., Inc.)	0	0
Botello Water Company	0	0
Burbank Development Company	50.65	0.02563
Cadway, Inc. (Successor to: Corcoran, Jack S. and R. L.)	100.00	0.05060
Corcoran, Jack S. and R. L.)	<u>100.00</u>	<u>0.05060</u>
	200.00	0.10120
Cal Fin (Transferred to Suburban Water Systems)	0	0
California-American Water Company (San Marino System)	7,868.70	3.98144
California Country Club	0	0

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
California Domestic Water Company (Successor to: Cantrill Mutual Water Company Industry Properties, Ltd. Modern Accent Corporation Fisher, Russell)	11,024.82  42.50 73.50 256.86 <u>19.00</u> 11,416.68	5.57839  0.02150 0.03719 0.12997 <u>0.00961</u> 5.77666
California Materials Company	0	0
Cantrill Mutual Water Company (Transferred to California Domestic Water Co.)	0	0
Cedar Avenue Mutual Water Company	121.10	0.06127
Champion Mutual Water Company	147.68	0.07472
Chronis, Christine (See Polopolus, et al)	-	-
Clayton Manufacturing Company	511.80	0.25896
Collison, E. O.	0	0
Comby, Erma M. (See Wilmott, Erma M.)	-	-
Conrock Company (Formerly Consolidated Rock Products Co.) (Successor to Manning Bros. Rock & Sand Co.)	1,465.35 <u>328.00</u> 1,793.35	0.74144 <u>0.16596</u> 0.90740
Consolidated Rock Products Co. (See Conrock Company)	-	-
Corcoran, Jack S. (Held in common with Corcoran, R. L.) (Transferred to: Cadway, Inc. Cadway, Inc.)	  747.00 100.00 <u>100.00</u> 547.00	  0.37797 0.05060 <u>0.05060</u> 0.27677
Corcoran, R. L. (See Corcoran, Jack S.)	-	-
County Sanitation District No. 18 of Los Angeles County	4.50	0.00228

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
Covell, et al. (Successor to Rittenhouse, Catherine and Rittenhouse, James) (Held in common with Jobe, Darr; Goedert, Lillian E.; Goedert, Marion W.; Lakin, Kendall R.; Lakin, Kelly R.; Snyder, Harry)	111.05	0.05619
Covina, City of (Transferred to Covina Irrigating Company)	2,507.89	1.26895
(Transferred to Covina Irrigating Company)	1,734.00	0.87737
	<u>300.00</u>	<u>0.15179</u>
	473.89	0.23979
Covina-Valley Unified School District (Transferred to Anderson, Ray)	0	0
Crevolin, A. J.	2.25	0.00114
Crocker National Bank, Executor of the Estate of A. V. Handorf (Transferred to Modern Accent Corp.)	0	0
Cross Water Company (Transferred to City of Industry)	0	0
Crown City Plating Company (Successor to Anchor Plating Co., Inc.)	190.00	0.09614
	<u>10.00</u>	<u>0.00506</u>
	200.00	0.10120
Davidson Optronics, Inc.	22.00	0.01113
Dawes, Mary Kay (Successor to Bahnsen, Betty M.)	441.90	0.22359
Del Rio Mutual Water Company	199.00	0.10069
Denton, Kathryn W., Trustee for San Jose Ranch Company (Transferred to White, June G., Trustee of the June G. White Share of the Garnier Trust)	0	0
Doyle, Mr. and Mrs.; and Madruga, Mr. and Mrs. (Successor to Sawpit Farms, Ltd.) (Transferred to Banks, Gale C.)	0	0
Driftwood Dairy	163.80	0.08288
Duhalde, L. (Transferred to El Monte Union High School District)	0	0

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
Dunning, George (Held in common with Dunning, Vera H.) (Successor to Vera H. Dunning)	324.00	0.16394
Dunning, Vera H. (Transferred to George Dunning)	-	-
East Pasadena Water Company, Ltd.	1,407.69	0.71227
Eckis, Rollin (Successor to Sawpit Farms, Ltd.) (Transferred to City of Monrovia)	0	0
El Encanto Properties (Transferred to La Puente Valley County Water District)	0	0
El Monte, City of	2,784.23	1.40878
El Monte Cemetary Association	18.50	0.00936
El Monte Union High School District (Successor to Duhalde, L.) (Transferred to City of Whittier)	0	0
Everett, Mrs. Alda B. (Held in common with Everett, W. B., Executor of the Estate of I. Worth Everett)	0	0
Everett, W. B., Executor of the Estate of I. Worth Everett (See Everett, Mrs. Alda B.)	-	-
Faix, Inc. (Successor to Frank F. Pellissier & Sons, Inc.) (Transferred to Faix, Ltd.)	0	0
Faix, Ltd. (Successor to Faix, Inc.)	6,490.00	3.28384
First National Finance Corporation (Transferred to City of Arcadia)	0	0
Fisher, Russell (Held in common with Hauch, Edward and Warren, Clyde) (Transferred to California Domestic Water Company)	0	0

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
Frank F. Pellissier & Sons, Inc. (Transferred to Faix, Inc.)	0	0
Fruit Street Water Company (Transferred to: Gifford, Brooks, Jr. City of La Verne)	0	0
Gifford, Brooks, Jr. (Successor to: Fruit Street Water Co., Mission Gardens Mutual Water Company) (Transferred to City of Whittier)	0	0
Gilkerson, Frank B. (Transferred to Jobe, Darr)	-	-
Glendora Unified High School District (Transferred to City of Glendora)	0	0
Goedert, Lillian E. (See Covell, et al)	-	-
Goedert, Marion W. (See Covell, et al)	-	-
Graham, William (Transferred to Darr Jobe)	-	-
Green, Walter	71.70	0.03628
Grizzle, Lissa B. (Held in common with Grizzle, Mervin A.; Wilson, Harold R.; Wilson, Sarah C.) (Transferred to City of Whittier)	0	0
Grizzle, Mervin A. (See Grizzle, Lissa B.)	0	0
Hansen, Alice	0.75	0.00038
Hartley, David	0	0
Hauch, Edward (See Fisher, Russell)	0	0
Hemlock Mutual Water Company	166.00	0.08399

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
Hollenbeck Street Water Company (Transferred to Suburban Water Systems)	0	0
Hunter, Lloyd F. (Successor to R. Wade)	4.40	0.00223
Hydro-Conduit Corporation	0	0
Industry Waterworks System, City of (Successor to Cross Water Company)	1,103.00	0.55810
Industry Properties, Ltd. (Successor to A & E Plastik Pak Co., Inc.) (Transferred to California Domestic Water Co.)	0	0
J. F. Isbell Estate, Inc. (Transferred to Andrade, Macario and Consuelo; and Andrade, Robert and Jayne)	0	0
Jerris, Helen (See Polopolus, et al)	-	-
Jobe, Darr (See Covell, et al)	-	-
Kirklen Family Trust (Formerly Kirklen, Dawn L.) (Held in common with Kirklen, William R.) (Successor to San Dimas-La Verne Recreational Facilities Authority)	375.00 <u>62.50</u> 437.50	0.18974 <u>0.03162</u> 0.22136
Kirklen, Dawn L. (See Kirklen Family Trust)	-	-
Kirklen, William R. (See Kirklen, Dawn L.)	-	-
Kiyan, Hideo (Held in common with Kiyan, Hiro)	30.00	0.01518
Kiyan, Hiro (See Kiyan, Hideo)	-	-
Knight, Kathryn M. (Successor to William Knight)	227.88	0.11530
Knight, William (Transferred to Kathryn M. Knight)	0	0

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
Lakin, Kelly R. (See Covell, et al)	-	-
Lakin, Kendall R. (See Covell, et al)	-	-
Landeros, John	0.75	0.00038
La Grande Source Water Company (Transferred to Suburban Water Systems)	0	0
Lang, Frank (Transferred to San Dimas-La Verne Recreational Facilities Authority)	0	0
La Puente Cooperative Water Company (Transferred to Suburban Water Systems)	0	0
La Puente Valley County Water District (Successor to El Encanto Properties)	1,097.00 <u>33.40</u> 1,130.40	0.55507 <u>0.01690</u> 0.57197
La Verne, City of (Successor to Fruit Street Water Co.)	250.00 <u>105.71</u> 355.71	0.12650 <u>0.05349</u> 0.17999
Lee, Paul M. and Ruth A.; Nasmyth, Virginia; Nasmyth, John	0	0
Little John Dairy	0	0
Livingston-Graham, Inc.	1,824.40	0.92312
Los Flores Mutual Water Company (Transferred to City of Monterey Park)	0	0
Loucks, David	3.00	0.00152
Manning Bros. Rock & Sand Co. (Transferred to Conrock Company)	0	0
Maple Water Company	118.50	0.05996
Martinez, Frances Mercy (Held in common with Martinez, Jaime)	0.75	0.00038
Martinez, Jaime (See Martinez, Frances Mercy)	-	-
Massey-Ferguson Company	0	0

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
Miller Brewing Company (Successor to: Maechtlen, Estate of J. J. Phillips, Alice B., et al)	111.01 151.50 <u>50.00</u> 312.51	0.05617 0.07666 <u>0.02530</u> 0.15813
Mission Gardens Mutual Water Company (Transferred to Gifford, Brooks, Jr.)	0	0
Modern Accent Corporation (Successor to Crocker National Bank, Executor of the Estate of A. V. Handorf) (Transferred to California Domestic Water Co.)	0	0
Monterey Park, City of (Successor to Los Flores Mutual Water Co.)	6,677.48 <u>26.60</u> 6,704.08	3.37870 <u>0.01346</u> 3.39216
Murphy Ranch Mutual Water Company (Transferred to Southwest Suburban Water)	0	0
Namimatsu Farms (Transferred to California Cities Water Company)	0	0
Nick Tomovich & Sons	0.02	0.00001
No. 17 Walnut Place Mutual Water Co. (Transferred to San Gabriel Valley Water Company)	0	0
Orange Production Credit Association	0	0
Owl Rock Products Co.	715.60	0.36208
Pacific Rock & Gravel Co. (Transferred to: City of Whittier Rose Hills Memorial Park Association)	0	0
Park Water Company (Transferred to Valley County Water District)	0	0
Penn, Margaret (See Polopolus, et al)	-	-
Pico County Water District	0.75	0.00038
Polopolus, John (See Polopolus, et al)	-	-

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
Polopolus, et al (Successor to Polopolus, Steve) (Held in common with Chronis, Christine; Jerris, Helen; Penn, Margaret; Polopolus, John)	22.50	0.01138
Polopolus, Steve (Transferred to Polopolus, et al)	-	-
Rados, Alexander (Held in common with Rados, Stephen and Rados, Walter)	43.00	0.02176
Rados, Stephen (See Rados, Alexander)	-	-
Rados, Walter (See Rados, Alexander)	-	-
Richwood Mutual Water Company	192.60	0.09745
Rincon Ditch Company	628.00	0.31776
Rincon Irrigation Company	314.00	0.15888
Rittenhouse, Catherine (Transferred to Covell, Ralph)	0	0
Rittenhouse, James (Transferred to Covell, Ralph)	0	0
Rose Hills Memorial Park Association (Successor to Pacific Rock & Gravel Co.)	594.00 <u>200.00</u> 794.00	0.30055 <u>0.10120</u> 0.40175
Rosemead Development, Ltd. (Successor to Thompson, Earl W.)	1.00	0.00051
Rurban Homes Mutual Water Company	217.76	0.11018
Ruth, Roy	0.75	0.00038
San Dimas-La Verne Recreational Facilities Authority (Successor to Lang, Frank) (Transferred to Kirklen, Dawn L. and William R.)	0	0
San Gabriel Country Club	286.10	0.14476
San Gabriel County Water District	4,250.00	2.15044

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
San Gabriel Valley Municipal Water District	0	0
San Gabriel Valley Water Company	16,659.00	8.42920
(Successor to:		
Vallecito Water Co.	2,867.00	1.45066
No. 17 Walnut Place Mutual Water Co.)	<u>21.50</u>	<u>0.01088</u>
	19,547.50	9.89074
Sawpit Farms, Limited		
(Transferred to:		
Eckis, Rollin		
Doyle and Madruga)	0	0
Schneiderman, Alan		
(See Birenbaum, Max)	-	-
Schneiderman, Lydia		
(See Birenbaum, Max)	-	-
Security Pacific National Bank, Co-Trustee for the Estate of Winston F. Stoody		
(See Stoody, Virginia A.)		
(Transferred to City of Whittier)	0	0
Sierra Madre, City of	0	0
Sloan Ranches	129.60	0.06558
Smith, Charles	0	0
Snyder, Harry		
(See Covell, et al)	-	-
Sonoco Products Company	311.60	0.15766
South Covina Water Service	992.30	0.50209
Southern California Edison Company	155.25	0.07855
(Successor to: Associated		
Southern Investment Company)	<u>16.50</u>	<u>0.00835</u>
	171.75	0.08690
Southern California Water Company, San Gabriel Valley District	5,773.00	2.92105
South Pasadena, City of	3,567.70	1.80520
Southwest Suburban Water		
(See Suburban Water Systems)	-	-



<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
U. S. Pipe & Foundry Company (Formerly United Concrete Pipe Corporation)	376.00	0.19025
Valencia Heights Water Company	861.00	0.43565
Valencia Valley Water Company (Transferred to Suburban Water Systems)	0	0
Vallecito Water Company (Transferred to San Gabriel Valley Water Company)	0	0
Valley County Water District (Formerly Baldwin Park County Water District) (Successor to Park Water Company)	5,775.00 <u>184.01</u> 5,959.01	2.92206 <u>0.09311</u> 3.01517
Valley Crating Company	0	0
Valley View Mutual Water Company	616.00	0.31169
Via, H. (See Via, H., Trust of)	-	-
Via, H., Trust of (Formerly Via, H.)	46.20	0.02338
Victoria Mutual Water Company (Transferred to Suburban Water Systems)	0	0
Wade, R. (Transferred to Lloyd F. Hunter)	0	0
Ward Duck Company	1,217.40	0.61599
Warren, Clyde (See Fisher, Russell)	-	-
W. E. Hall Company	0.20	0.00010
White, June G., Trustee of the June G. White Share of the Garnier Trust (Successor to Denton, Kathryn W., Trustee for the San Jose Ranch Company)	185.50	0.09386

<u>Pumper</u>	<u>Prescriptive Pumping Right Acre-feet</u>	<u>Pumper's Share %</u>
Whittier, City of (Successor to: Grizzle, Lissa B. Pacific Rock and Gravel Co.) Security Pacific National Bank, Co-Trustee for the Estate of Winston F. Stoodly El Monte Union High School District Gifford, Brooks, Jr. Birenbaum, Max)	7,620.23 184.00 208.00 38.70 16.20 198.25 6.00 <u>8,271.38</u>	3.85572 0.09310 0.10524 0.01958 0.00820 0.10031 0.00304 <u>4.18519</u>
Wigodsky, Bernard (See Birenbaum, Max)	-	-
Wigodsky, Estera (See Birenbaum, Max)	-	-
Wilmott, Erma M. (Formerly Comby, Erma M.)	0.75	0.00038
Wilson, Harold R. (See Grizzle, Lissa B.)	-	-
) Wilson, Sarah C. (See Grizzle, Lissa B.)	-	-
Woodland, Frederick G.	-	-
Woodland, Richard (Successor to: Bahnsen and Beckman Ind., Inc.)	<u>840.50</u>	<u>0.42528</u>
Totals for Exhibit "D"	<u>155,800.68</u>	<u>78.83276</u>
Totals from Exhibit "E"	<u>41,833.75</u> <del>38,026.25</del>	<u>21.14724</u> <del>19.54431</del>
GRAND TOTALS	<u>197,634.43</u>	<u>100.00000</u>

TABLE  
SHOWING PRODUCTION RIGHTS  
OF EACH  
INTEGRATED PRODUCER  
AS OF JUNE 1988

<u>Party</u>	<u>Diversion Component Acre-feet</u>	<u>Prescriptive Pumping Component Acre-feet</u>	<u>Pumping Component Share Percent (%)</u>
Azusa Agricultural Water Company	1,000.00	1,732.20	0.87647
Azusa Foot-Hill Citrus Water Company (Transferred to Monrovia Nursery Company)	0	0	0
Azusa Valley Water Company	2,422.00	8,274.00	4.18652
California-American Water Company (Duarte System)	1,672.00	3,649.00	1.84634
California Cities Water Company (See Southern California Water Company, San Dimas District)	-	-	-
Covina Irrigating Company (Successor to: City of Covina, City of Covina, and Taylor Herb Garden)	2,514.00	4,140.00	2.09478
		1,734.00	0.87737
		300.00	0.15179
		6.00	0.00304
	2,514.00	6,180.00	3.12698
Glendora, City of (Successor to: Maechtlen, Estate of J. J., Maechtlen, Trust of P. A., Ruebhausen, Arline, and Glendora Unified High School District)	17.00	8,258.00	4.17842
		150.00	0.07590
		50.00	0.02530
	18.34		
		9.00	0.05009
	35.34	8,557.00	4.32971
Los Angeles, County of	310.00	3,721.30	1.88292
Maechtlen, Estate of J. J. (Transferred to: City of Glendora Miller Brewing Company)	0	301.50	0.15256
		-150.00	-0.07590
		-151.50	-0.07666
	0	0	0

<u>Party</u>	<u>Diversion Componet Acre-feet</u>	<u>Prescriptive Pumping Component Acre-feet</u>	<u>Pumping Component Share %</u>
Maechtlen, Estate of J. J.	1.49	0	0
Maechtlen, Trust of P. A.	0.50	100.50	0.05085
(Transferred to: City of Glendora Alice B. Phillips, et al)	<u>-0.50</u> 0	<u>-50.00</u> 0	<u>-0.02530</u> 0
The Metropolitan Water District of Southern California	9.59	165.00	0.08349
Monrovia, City of (Sucessor to: Eckis, Rollin City of Arcadia)	1,098.00 <u>1,098.00</u>	5,042.22 123.00 <u>951.00</u> 6,116.22	2.55129 0.06224 <u>0.48119</u> 3.09472
Monrovia, Nursery Company (Successor to: Azusa Foot-Hill Citrus Co.)	239.50 718.50	0 0	0 0
Phillips, Alice B., et al (Successor to: Maechtlen, Trust of P. A.) (Transferred to: Miller Brewing Company)	0.50 <u>0.50</u>	50.50 <u>-50.00</u> 0.50	0.02530 <u>-0.02530</u> 0.00025
Southern California Water Company (San Dimas Dist.) (Formerly California Cities Water Company) (Successor to: Namimatsu Farms)	500.00 <u>500.00</u>	3,242.53 <u>196.00</u> <u>3,438.53</u>	1.64076 <u>0.09917</u> <u>1.73984</u>
TOTAL for Exhibit "E"	<u>10,520.92</u>	<u>41,833.75</u>	<u>21.16724</u>

Exhibit "F"

TABLE SHOWING  
SPECIAL CATAGORY RIGHTS

<u>PARTY</u>	<u>Nature of Right</u>
The Metropolitan Water District of Southern California	<u>Morris Reservoir Storage and Withdrawal</u> (a) A right to divert, store and use San Gabriel River Water, pursuant to Permit No. 7174.  (b) Prior and paramount right to divert 72 acre-feet annually to offset Morris Reservoir evaporation and seepage losses and to provide the water supply necessary for presently existing incidental Morris Dam facilities.
Los Angeles County Flood Control District (Now Los Angeles County Department of Public Works)	<u>Puddingstone Reservoir</u> Prior Prescriptive right to divert water from San Dimas Wash for storage in Puddingstone Reservoir in quantities sufficient to offset annual evaporation and seepage losses of the reservoir at approximate elevation 942.

Exhibit "G"

TABLE SHOWING  
NON-CONSUMPTIVE USERS

<u>Party</u>	<u>Nature of Right</u>
Covina Irrigating Company Azusa Valley Water Company Azusa Agricultural Water Co. Azusa Foot-Hill Citrus Co. Monrovia Nursery Company	<u>"Committee-of-Nine" Spreading Right</u> To continue to divert water from the San Gabriel River pursuant to the 1888 Settlement, and to spread in spreading grounds within the Basin all water thus diverted without the right to recapture water in excess of said parties' rights as adjudicated in Exhibit "E".
California-American Water Company (Duarte System)	<u>Spreading Right</u> To continue to divert water from the San Gabriel River pursuant to the 1888 Settlement, and to continue to divert water from Fish Canyon and to spread said waters in its spreading grounds in the Basin without the right to recapture water in excess of said party's rights as adjudicated in Exhibit "E".
City of Glendora	<u>Spreading Right</u> To continue to spread the water of Big and Little Dalton Washes, pursuant to License No. 2592 without the right to recapture water in excess of said party's rights as adjudicated in Exhibit "E".
San Gabriel Valley Protective Association	<u>Spreading Right</u> To continue to spread San Gabriel River water pursuant to License Nos. 9991 and 12,209, without the right to recapture said water.
California Cities Water Company	<u>Spreading Right</u> To continue to spread waters from San Dimas Wash without the right to recapture water in excess of said party's rights as adjudicated in Exhibit "E".
Los Angeles County Flood Control District	<u>Temporary storage</u> of storm flow for regulatory purposes;  <u>Spreading</u> and conservation for general benefit in streambeds, reservoirs and spreading grounds without the right to recapture said water.  <u>Maintenance and operation</u> of dams and other flood control works.

## EXHIBIT "H"

### WATERMASTER OPERATING CRITERIA

1. Basin Storage Capacity. The highest water level at the end of a water year during the past 40 years was reached at the Key Well on September 30, 1944 (elevation 316). The State of California, Department of Water Resources, estimates that as of that date, the quantity of fresh water in storage in the Basin was approximately 8,600,000 acre-feet. It is also estimated by said Department that by September 30, 1960, the quantity of fresh water in storage had decreased to approximately 7,900,000 acre-feet (elevation 237) at the Key Well).

The lowest water level at the end of a water year during the past 40 years was reached at the Key Well on September 30, 1965 (elevation 209). It is estimated that the quantity of fresh water in storage in the Basin on that date was approximately 7,700,000 acre-feet.

Thus, the maximum utilization of Basin storage was approximately 900,000 acre-feet, occurring between September 30, 1944, and September 30, 1965 (between elevations 316 and 209 at the Key Well). This is not to say that more than 900,000 acre-feet of storage space below the September 30, 1944 water levels cannot be utilized. However, it demonstrates that pumpers have deepened their wells and lowered their pumps so that such 900,000 acre-feet of storage can be safely and economically utilized.

The storage capacity of the Basin between elevations of 200 and 250 at the Key Well represents a usable volume of approximately 400,000 acre-feet of water.

2. Operating Safe Yield and Spreading. Watermaster in determining Operating Safe Yield and the importation of Replacement Water shall be guided by water level elevations in the Basin. He shall give recognition to, and base his operations on, the following general objectives insofar as practicable:

- (a) The replenishment of ground water from sources of supplemental water should not cause excessively high levels of ground water and such replenishment should not cause undue waste of local water supplies.
- (b) Certain areas within the Basin are not at the present time capable of being recharged with supplemental water. Efforts should be made to provide protection to such areas from excessive ground water lowering either through the "in lieu" provisions of the Judgment or by other means.
- (c) Watermaster shall consider and evaluate the long-term consequences on ground water quality, as well as quantity, in determining and establishing Operating Safe Yield. Recognition shall be given to the enhancement of ground water quality insofar as practicable, especially in the area immediately upstream of Whittier Narrows where degradation of water quality may occur when water levels at the Key Well are maintained at or below elevation 200.
- (d) Watermaster shall take into consideration the comparative costs of supplemental and Make-up Water in determining the savings on a present value basis of temporary or permanent lowering or raising of water levels and other economic data and analyses indicating both the short-term and long-term

propriety of adjusting Operating Safe Yield in order to derive optimum water levels during any period. Watermaster shall utilize the provisions in the Long Beach Judgment which will result in the least cost of delivering Make-up Water.

3. Replacement Water -- Sources and Recharge Criteria. The following criteria shall control purchase of Replacement Water and Recharge of the Basin by Watermaster.

(a) Responsible Agency From Which to Purchase. Watermaster, in determining the Responsible Agency from which to purchase supplemental water for replacement purposes, shall be governed by the following:

- (1) Place of Use of Water which is used primarily within the Basin or by cities within San Gabriel District in areas within or outside the Basin shall control in determining the Responsible Agency. For purposes of this subparagraph, water supplied through a municipal water system which lies chiefly within the Basin shall be deemed entirely used within the Basin; and
- (2) Place of production of water shall control in determining the Responsible Agency as to water exported from the Basin, except as to use within San Gabriel District.

Any Responsible Agency may, at the request of Watermaster, waive its right to act as the source for such supplemental water, in which case Watermaster shall be free to purchase such water from the remaining Responsible Agencies which are the most beneficial and appropriate sources; provided, however, that a Responsible Agency shall not

authorize any sale of water in violation of the California Constitution.

(b) Water Quality. Watermaster shall purchase the best quality of supplemental water available for replenishment of the Basin, pursuant to subsection (a) hereof.

(c) Reclaimed Water. It is recognized that the technology and economic and physical necessity for utilization of reclaimed water is increasing. The purchase of reclaimed water in accordance with the Long Beach Judgment to satisfy the Make-up Obligation is expressly authorized. At the same time, water quality problems involved in the reuse of water within the Basin pose serious questions of increased costs and other problems to the pumpers, their customers and all water users. Accordingly, Watermaster is authorized to gather information, make and review studies, and make recommendations on the feasibility of the use of reclaimed water for replacement purposes; provided that no reclaimed water shall be recharged in the Basin by Watermaster without the prior approval of the court, after notice to all parties and hearing thereon.

4. Replacement Assessment Rates. The Replacement Assessment rates shall be in an amount calculated to allow Watermaster to purchase one acre-foot of supplemental water for each acre-foot of excess Production to which such Assessment applies.

EXHIBIT "J"

PUENTE NARROWS AGREEMENT

THIS AGREEMENT is made and entered into as of the 8th day of May, 1972, by and between PUENTE BASIN WATER AGENCY, herein called "Puente Agency", and UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT, herein called "Upper District".

A. RECITALS

1. Puente Agency. Puente Agency is a joint powers agency composed of Walnut Valley Water District, herein called "Walnut District", and Rowland Area County Water District, herein called "Rowland District". Puente Agency is formed for the purpose of developing and implementing a ground water basin management program for Puente Basin. Pursuant to said purpose, said Agency is acting as a representative of its member districts and of the water users and water right claimants therein in the defense and maintenance of their water rights within Puente Basin.

2. Upper District. Upper District is a municipal water district overlying a major portion of the Main San Gabriel Basin. Upper District is plaintiff in the San Gabriel Basin Case, wherein it seeks to adjudicate rights and implement a basin management plan for the Main San Gabriel Basin.

3. Puente Basin is a ground water basin tributary to the Main San Gabriel Basin. Said area was included within the scope of the San Gabriel Basin Case and substantially

Exhibit "J"

all water rights claimants within Puente Basin were joined as defendants therein. The surface contribution to the Main San Gabriel Basin from Puente Basin is by way of the paved flood control channel of San Jose Creek, which passes through Puente Basin from the Pomona Valley area. Subsurface outflow is relatively limited and moves from the Puente Basin to the Main San Gabriel Basin through Puente Narrows.

4. Intent of Agreement. Puente Agency is prepared to assure Upper District that no activity within Puente Basin will hereafter be undertaken which will (1) interfere with surface flows in San Jose Creek, or (2) impair the subsurface flow from Puente Basin to the Main San Gabriel Basin. Walnut District and Rowland District, by operation of law and by express assumption endorsed hereon, assume the covenants of this agreement as a joint and several obligation. Based upon such assurances and the covenants hereinafter contained in support thereof, Upper District consents to the dismissal of all Puente Basin parties from the San Gabriel Basin Case. By reason of said dismissals, Puente Agency will be free to formulate a separate water management program for Puente Basin.

#### B. DEFINITIONS AND EXHIBITS

5. Definitions. As used in this Agreement, the following terms shall have the meanings herein set forth:

(a) Annual or Year refers to the fiscal year July 1 through June 30.

(b) Base Underflow. The underflow through

Exhibit "J"

Puente Narrows which Puente Agency agrees to maintain, and on which accrued debits and credits shall be calculated.

(c) Make-up Payment. Make-up payments shall be an amount of money payable to the Watermaster appointed in the San Gabriel Basin Case, sufficient to allow said Watermaster to purchase replacement water on account of any accumulated deficit as provided in Paragraph 9 hereof.

(d) Puente Narrows. The subsurface geologic constriction at the downstream boundary of Puente Basin, located as shown on Appendix "B".

(e) Main San Gabriel Basin, the ground water basin shown and defined as such in Exhibit "A" to the Judgment in the San Gabriel Basin Case.

(f) San Gabriel Basin Case. Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al., L. A. Sup. Ct. No. 924128, filed January 2, 1968.

6. Appendices. Attached hereto and by this reference made a part hereof are the following appendices:

"A" -- Location Map of Puente Basin, showing major geographic, geologic, and hydrologic features.

"B" -- Map of Cross-Section Through Puente Narrows, showing major physical features and location of key wells.

Exhibit "J"

"C" -- Engineering Criteria, being a description of a method of measurement of subsurface outflow to be utilized for Watermaster purposes.

C. COVENANTS

7. Watermaster. There is hereby created a two member Watermaster service to which each of the parties to this agreement shall select one consulting engineer. The respective representatives on said Watermaster shall serve at the pleasure of the governing body of each appointing party and each party shall bear its own Watermaster expense.

a. Organization. Watermaster shall perform the duties specified herein on an informal basis, by unanimous agreement. In the event the two representatives are unable to agree upon any finding or decision, they shall select a third member to act, pursuant to the applicable laws of the State of California. Thereafter, until said issue is resolved, said three shall sit formally as a board of arbitration. Upon resolution of the issue in dispute, the third member shall cease to function further.

b. Availability of Information. Each party hereto shall, for itself and its residents and water users, use its best efforts to furnish all appropriate information to the Watermaster in order that the required determination can be made.

Exhibit "J"

c. Cooperation With Other Watermasters. Watermaster hereunder shall cooperate and coordinate activities with the Watermasters appointed in the San Gabriel Basin Case and in Long Beach v. San Gabriel Valley Water Company, et al.

d. Determination of Underflow. Watermaster shall annually determine the amount of underflow from Puente Basin to the San Gabriel Basin, pursuant to Engineering Criteria.

e. Perpetual Accounting. Watermaster shall maintain a perpetual account of accumulated base underflow, accumulated subsurface flow, any deficiencies by reason of interference with surface flows, and the offsetting credit for any make-up payments. Said account shall annually show the accumulated credit or debit in the obligation of Puente Agency to Upper District.

f. Report. Watermaster findings shall be incorporated in a brief written report to be filed with the parties and with the Watermaster in the San Gabriel Basin Case. Said report shall contain a statement of the perpetual account heretofore specified.

8. Base Underflow. On the basis of a study and review of historic underflow from Puente Basin to the Main San Gabriel Basin, adjusted for the effect of the paved flood control channel and other relevant considerations, it is

Exhibit "J"

mutually agreed by the parties that the base underflow is and shall be 580 acre feet per year, calculated pursuant to Engineering Criteria.

9. Puente Agency's Obligation. Puente Agency covenants, agrees and assumes the following obligation hereunder:

a. Noninterference with Surface Flow. Neither Puente Agency nor any persons or entities within the corporate boundaries of Walnut District or Rowland District will divert or otherwise interfere with or utilize natural surface runoff now or hereafter flowing in the storm channel of San Jose Creek; provided, however, that this covenant shall not prevent the use, under Watermaster supervision, of said storm channel by the Puente Agency or Walnut District or Rowland District for transmission within Puente Agency of supplemental or reclaimed water owned by said entities and introduced into said channel solely for transmission purposes. In the event any unauthorized use of surface flow in said channel is made contrary to the covenant herein provided, Puente Agency shall compensate Upper District by utilizing any accumulated credit or by make-up payment in the same manner as is provided for deficiencies in subsurface outflow from Puente Basin.

b. Subsurface Outflow. To the extent that

Exhibit "J"

the accumulated subsurface outflow falls below the accumulated base underflow and the result thereof is an accumulated deficit in the Watermaster's annual accounting, Puente Agency agrees to provide make-up payments during the next year in an amount not less than one-third of the accumulated deficit.

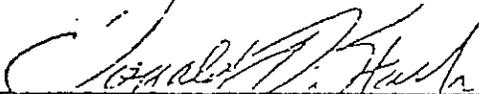
c. Purchase of Reclaimed Water. To the extent that Puente Agency or Walnut District or Rowland District may hereafter purchase reclaimed water from the facilities of Sanitation District 21 of Los Angeles County, such purchaser shall use its best efforts to obtain waters originating within San Gabriel River Watershed.

10. Puente Basin Parties Dismissal. In consideration of the assumption of the obligation hereinabove provided by Puente Agency, Upper District consents to entry of dismissals as to all Puente Basin parties in San Gabriel Basin Case. This agreement shall be submitted for specific approval by the Court and a finding that it shall operate as full satisfaction of any and all claims by the parties within Main San Gabriel Basin against Puente Basin parties by reason of historic surface and subsurface flow.

Exhibit "J"

IN WITNESS WHEREOF the parties hereto have caused  
this Agreement to be executed as of the day and date first  
above written.

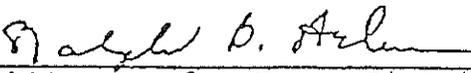
Approved as to form:  
CLAYSON, STARK, ROTHROCK & MANN

By   
Attorneys for Puente Agency

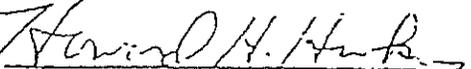
PUENTE BASIN AGENCY

By   
EDWARD M. BIEDERMAN  
President

Approved as to form:

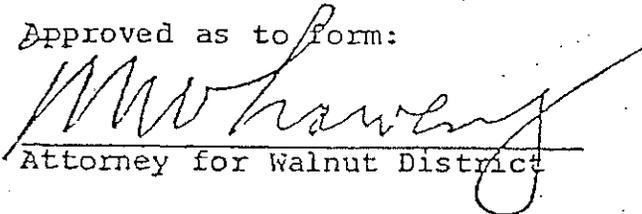
By   
Attorney for Upper District

UPPER SAN GABRIEL VALLEY  
MUNICIPAL WATER DISTRICT

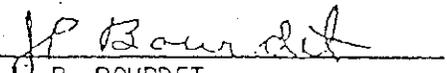
By   
Howard H. Hawkins  
President

The foregoing agreement is approved and accepted, and  
the same is acknowledged as the joint and several obligation  
of the undersigned.

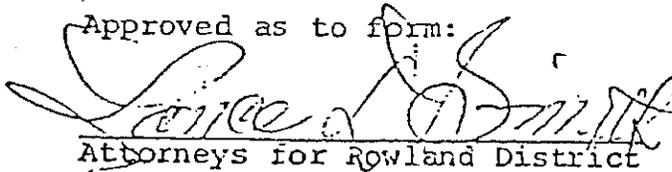
Approved as to form:

  
Attorney for Walnut District

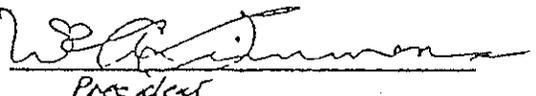
WALNUT VALLEY WATER DISTRICT

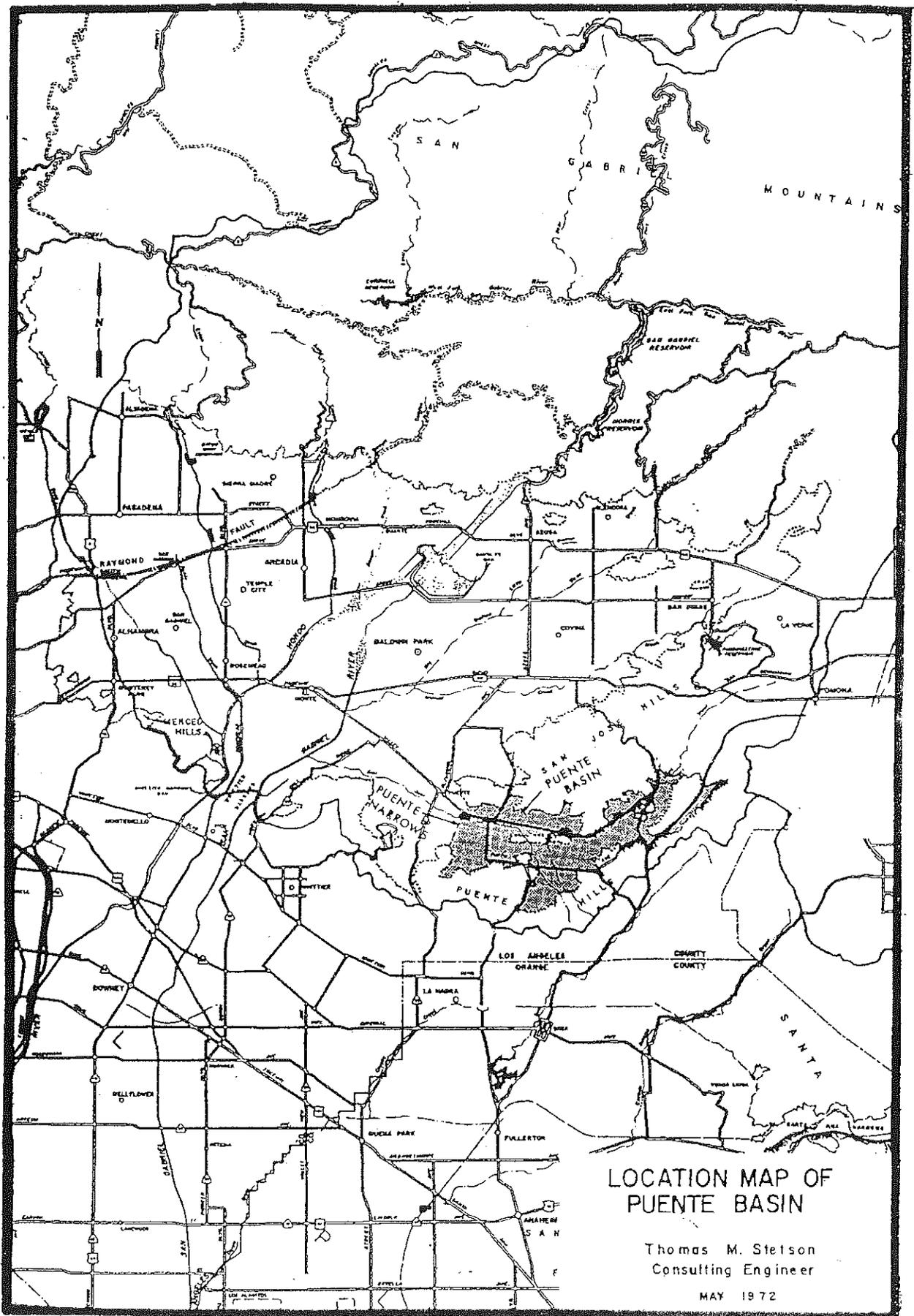
By   
J. P. BOURDET  
Vice President

Approved as to form:

  
Attorneys for Rowland District

ROWLAND AREA COUNTY WATER  
DISTRICT

By   
President  
W. A. Simons



LOCATION MAP OF  
PUENTE BASIN

Thomas M. Stetson  
Consulting Engineer

MAY 1972

MAP OF CROSS SECTION  
THROUGH PUENTE NARROWS

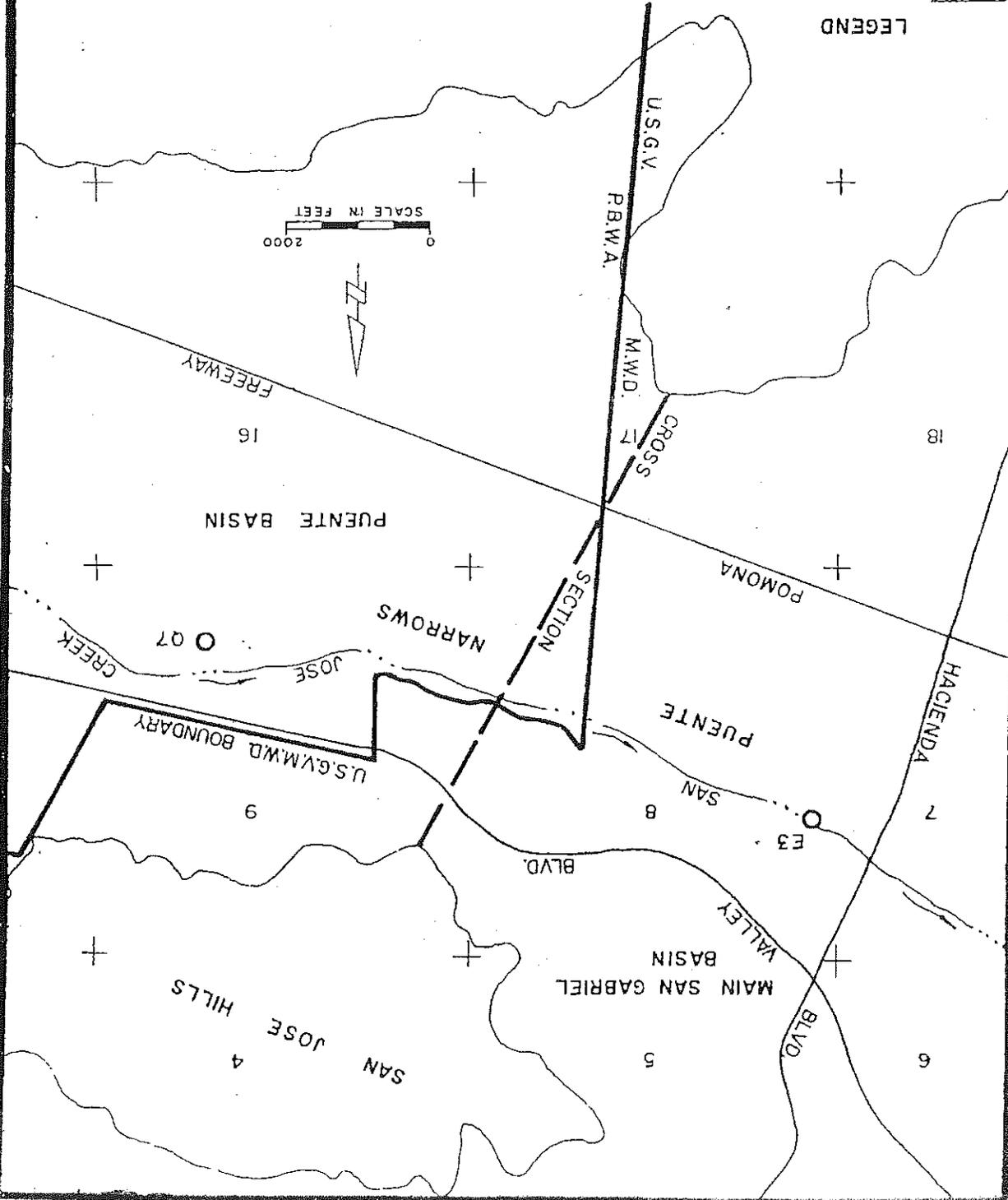
Thomas M. Stetson  
Consulting Engineer

MAY 1972

NOTE: ALL SECTIONS ARE IN TOWNSHIP 2 SOUTH,  
RANGE 10 WEST, SAN BERNARDINO BASE AND MERIDIAN

- MONITORING WELLS
- CROSS SECTION THROUGH PUENTE NARROWS
- PUENTE BASIN WATER AGENCY
- VALLEY MUNICIPAL WATER DISTRICT AND
- BOUNDARY BETWEEN UPPER SAN GABRIEL
- TRIBUTARY TO WHITTIER NARROWS
- MT. AND HILL AREA
- GROUND WATER BASIN

LEGEND





ENGINEERING CRITERIA

APPENDIX "C"

1. Monitoring Wells. The wells designated as State Wells No. 2S/10W-9Q7 and 2S/10W-8E3 and Los Angeles County Flood Control District Nos. 3079M and 3048B, respectively, shall be used to measure applicable ground water elevations. In the event either monitoring well should fail or become unrepresentative, a substitute well shall be selected or drilled by Watermaster. The cost of drilling a replacement well shall be the obligation of the Puente Agency.

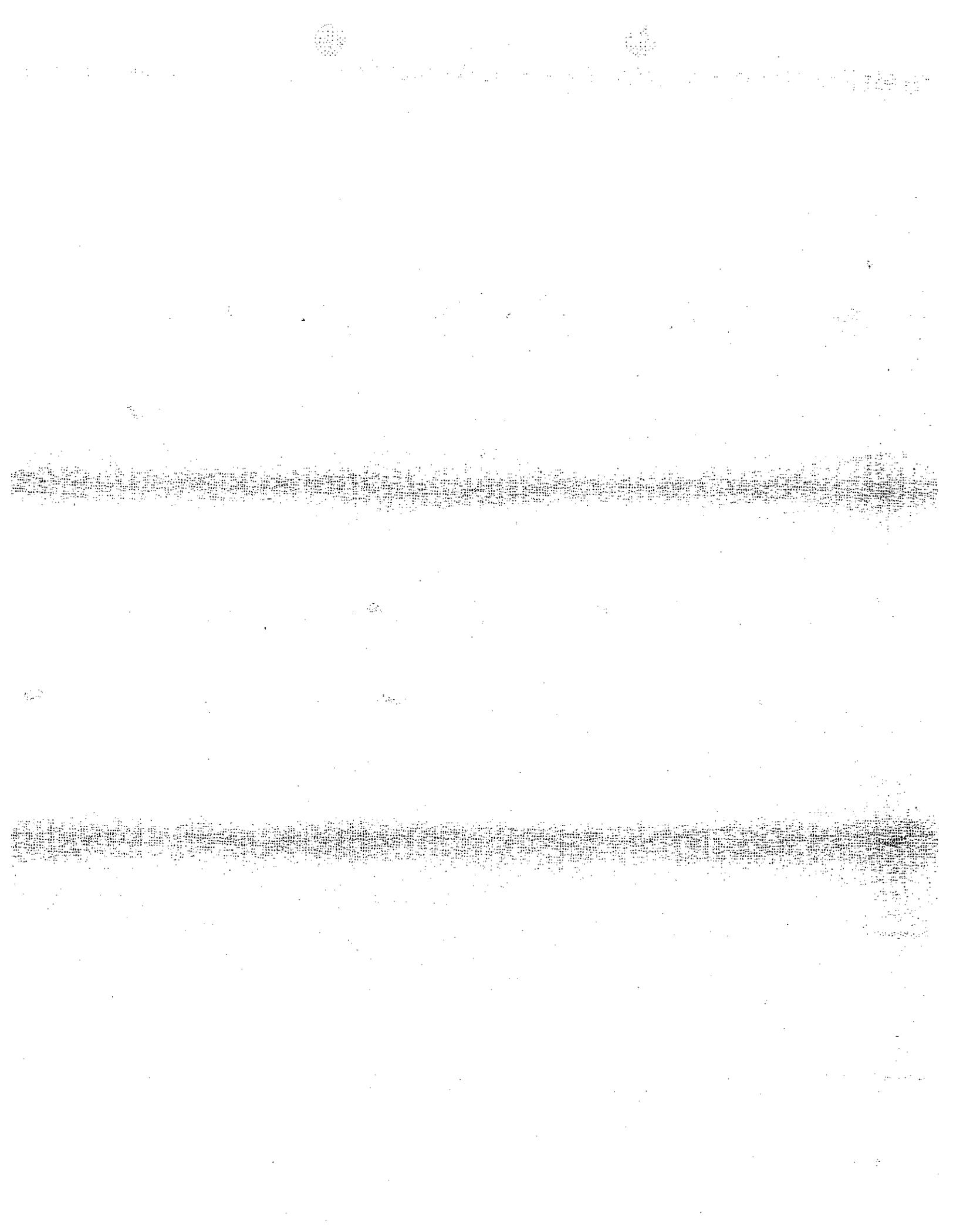
2. Measurement. Each monitoring well shall be measured and the ground water elevation determined semi-annually on or about April 1 and October 1 of each year. Prior to each measurement, the pump shall be turned off for a sufficient period to insure that the water table has recovered to a static or near equilibrium condition.

3. Hydraulic Gradient. The hydraulic gradient, or slope of the water surface through Puente Narrows, shall be calculated between the monitoring wells as the difference in water surface elevation divided by the distance, approximately 9,000 feet, between the wells. The hydraulic gradient shall be determined for the spring and fall and the average hydraulic gradient calculated for the year.

4. Ground Water Elevation at Puente Narrows Cross Section. The ground water elevation at the Puente Narrows

APPENDIX "C"

Exhibit "J"



cross section midway between the monitoring wells shall be the average of the ground water elevation at the two wells. This shall be determined for the spring and fall and the average annual ground water elevation calculated for the year.

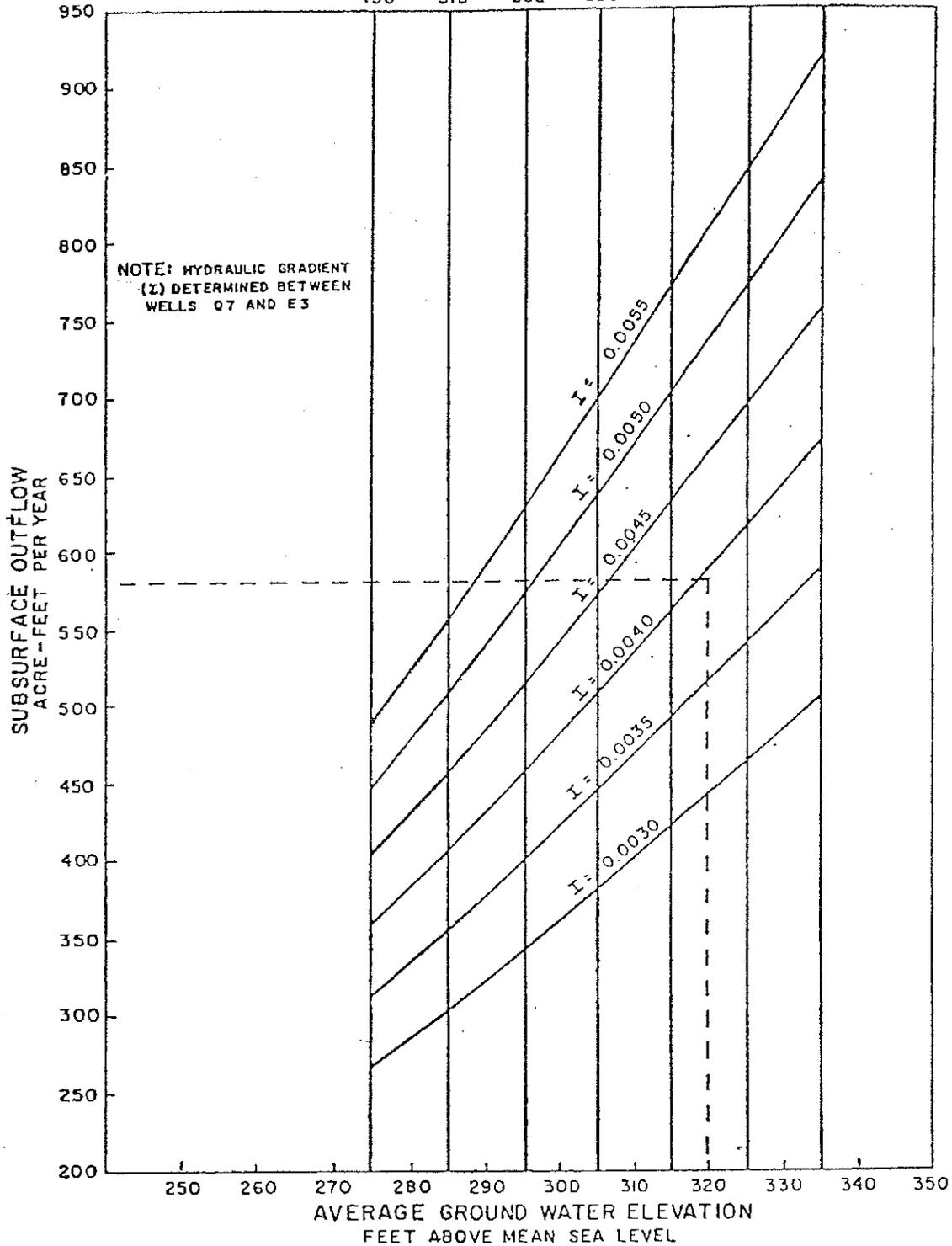
5. Determination of Underflow. The chart attached is a photo-reduction of a full scale chart on file with the Watermaster. By applying the appropriate average annual hydraulic gradient (I) to the average annual ground water elevation at the Puente Narrows cross section (involving the appropriate cross-sectional area [A]), it is possible to read on the vertical scale the annual acre feet of underflow.

APPENDIX "C"

Exhibit "J"

CROSS-SECTIONAL AREA  
THOUSANDS OF SQUARE FEET

458 518 582 650 717 786 860



RELATIONSHIP OF AVERAGE GROUND WATER ELEVATION AT PUENTE NARROWS AND APPLICABLE CROSS-SECTIONAL AREA WITH SUBSURFACE OUTFLOW THROUGH PUENTE NARROWS FOR VARIOUS HYDRAULIC GRADIENTS

Thomas M. Stetson  
Consulting Engineer

MAY 1972

EXHIBIT "K"

OVERLYING RIGHTS

I. NATURE OF OVERLYING RIGHT

An "Overlying Right" is the right to Produce water from the Main San Gabriel Basin for use on the overlying lands hereinafter described. Such rights are exercisable without quantitative limit only on said overlying land and cannot be separately conveyed or transferred apart therefrom. The exerciser of such right is assessable by Watermaster as provided in Paragraph 21 of the Amended Judgment herein (prior Paragraph 14.5 of the Judgment herein) and is subject to the other provisions of said Paragraph.

II. OVERLYING LANDS (Description)

The overlying lands to which Overlying Rights are appurtenant are described as follows:

"Those portions of Lots 1 and 2 of the lands formerly owned by W.A. Church, in the Rancho San Francisquito, in the City of Irwindale, County of Los Angeles, State of California, as shown on recorder's filed map No. 509, in the office of the County Recorder of said County, lying northeasterly of the northeasterly line and its southeasterly prolongation of Tract 1888, as shown on map recorded in Book 21 page 183 of Maps, in the office of the County Recorder of said County.

"EXCEPT the portions thereof lying northerly and northwesterly of the center line of Arrow Highway described 'Sixth' and the center line of Live Oak Avenue described 'Third' in a final decree of condemnation, a certified copy of which was recorded August 18, 1933 as Instrument No. 354, in Book 12289, Page 277, Official Records.

"ALSO EXCEPT that portion of said land described in the final decree of condemnation entered in Los Angeles County Superior Court Case No. 805008, a certified copy of which was recorded September 21, 1964, as Instrument No. 3730, in Book D-2634, Page 648, Official Records."

III. PRODUCERS ENTITLED TO EXERCISE OVERLYING RIGHTS AND THEIR RESPECTIVE CONSUMPTIVE USE PORTIONS

The persons entitled to exercise Overlying Rights are both the owners of Overlying Rights and persons and entities licensed by such owners to exercise such Overlying Rights. The persons entitled to exercise Overlying Rights and their respective Consumptive Use portions are as follows:

<u>OWNER PRODUCERS</u>	<u>CONSUMPTIVE USE PORTION</u>
BROOKS GIFFORD, SR. BROOKS GIFFORD, JR. PAUL MNOIAN JOHN MGRDICHIAN J. EARL GARRETT	3.5 acre-feet per year

Present User:  
Nu-Way Industries

PRODUCERS UNDER LICENSE

A. WILLIAM C. THOMAS and EVELYN F. THOMAS, husband and wife, and MALCOLM K. GATHERER and JACQUELINE GATHERER, husband and wife, doing business by and through B & B REDI-I-MIX CONCRETE, INC., a corporation	45.6 acre-feet per year
B. PRE-STRESS CRANE RIGGING & TRUCK CO., INC., a corporation	<u>1.0</u> acre-foot per year

Present Users:  
Pre-Stress Crane Rigging &  
Truck Co., Inc., a corporation

Total 50.1 acre-feet per year

IV. ANNUAL GROSS AMOUNT OF PRODUCTION FROM WHICH CONSUMPTIVE USE PORTIONS WERE DERIVED

183.65 acre-feet

Exhibit "L"

LIST OF PRODUCERS AND THEIR DESIGNEES  
June, 1989

<u>Producer Name</u>	<u>Designee</u>
<u>A</u>	
Adams Ranch Mutual Water Company	Goji Iwakiri
Alhambra, City of	T. E. Shollenberger
Amarillo Mutual Water Company	Ester Guadagnolo
Anderson, Ray	Ray Anderson
Andrade, Macario, et al.	Macario R. Andrade
Arcadia, City of	Eldon Davidson
AZ-Two, Inc.	R. S. Chamberlain
Azusa, City of	William H. Redcay
Azusa Ag. Water Company	Robert E. Talley
Azusa Valley Water Company	Edward Heck
<u>B</u>	
Baldwin Park County Water District (See Valley County Water District)	-
Banks, Gale C.	Gale C. Banks
Base Line Water Company	Everett W. Hughes, Jr.
Beverly Acres Mutual Water User's Assn. (Formerly Beverly Acres Mutual Water Co.)	Eloise A. Moore
Burbank Development Company	Darrell A. Wright
<u>C</u>	
Cadway, Inc.	P. Geoffrey Nunn
California-American Water Company (San Marino System)	Andrew A. Krueger
California-American Water Company (Duarte System)	Andrew A. Krueger
California Country Club	Henri F. Pellissier
California Domestic Water Company	P. Geoffrey Nunn
Cedar Avenue Mutual Water Company	Austin L. Knapp

Exhibit "L"

<u>Producer Name</u>	<u>Designee</u>
Champion Mutual Water Company	Margaret Bauwens
Chevron, USA, Inc.	Ms. Margo Bart
Clayton Manufacturing Company	Don Jones
Conrock Company	Gene R. Block
Corcoran Brothers	Ray Corcoran
County Sanitation District No. 18	Charles W. Curry
Covell, et al.	Darr Jobe
Covell, Ralph	Ralph Covell
Covina, City of	Wayne B. Dowdey
Covina Irrigating Company	William R. Temple
Crevolin, A. J.	A. J. Crevolin
Crown City Plating Company	N. G. Gardner
<u>D</u>	
Davidson Optronics, Inc.	James McBride
Dawes, Mary Kay	Mary Kay Dawes
Del Rio Mutual Water Company	Gonzalo Galindo
Driftwood Dairy	James E. Dolan
Dunning, George	George Dunning
<u>E</u>	
East Pasadena Water Company	Robert D. Mraz
El Monte, City of	Robert J. Pinniger
El Monte Cemetery Association	Linn E. Magoffin
<u>F</u>	
Faix, Ltd.	Henri F. Pellissier
<u>G</u>	
Glendora, City of	Arthur E. Cook
Green, Walter	Dr. Walter Green
<u>H</u>	
Hansen, Alice	Alice Hansen

Exhibit "L"

<u>Producer Name</u>	<u>Designee</u>
Hartley, David	David Hartley
Hemlock Mutual Water Company	Bud Selander
Hunter, Lloyd F.	Lloyd F. Hunter
<u>I</u> Industry Waterworks System, City of	Mary L. Jaureguy
<u>K</u> Kiyon Farm Kiyon, Hideo	Mrs. Hideo Kiyon
Kirklen Family Trust	Dawn Kirklen
Knight, Kathryn M.	William J. Knight
<u>L</u> Landeros, John	John Landeros
La Puente Valley County Water District La Verne, City of	Mary L. Jaureguy N. Kathleen Hamm
Livingston-Graham Los Angeles, County of	Gary O. Tompkins Robert L. Larson
Loucks, David	David Loucks
<u>M</u> Maddock, A. G.	Ranney Draper, Esq.
Maechtlen, Trust of J. J.	Jack F. Maechtlen
Maple Water Company, Inc.	Charles King
Martinez, Francis Mercy	Francis Mercy Martinez
Metropolitan Water District of Southern California	Fred Vendig, Esq.
Miller Brewing Company	Dennis B. Puffer
Mnoian, Paul, et al.	Mal Gatherer
Monrovia, City of	Robert K. Sandwick
Monrovia Nursery	Miles R. Rosedale
Monterey Park, City of	Nels Palm

Exhibit "L"

<u>Producer Name</u>	<u>Designee</u>
<u>N</u> Nick Tomovich & Sons	Nick Tomovich
<u>O</u> Owl Rock Products Company	Peter L. Chiu
<u>P</u> Phillips, Alice B., et al. Pico County Water District Polopolus, et al.	Jack F. Maechtlen Robert P. Fuller Christine Chronis
<u>R</u> Rados Brothers Richwood Mutual Water Company Rincon Ditch Company Rincon Irrigation Company Rose Hills Memorial Park Association Rosemead Development, Ltd. Rurban Homes Mutual Water Company Ruth, Roy	Alexander S. Rados Bonnie Pool K. E. Nungesser K. E. Nungesser Allan D. Smith John W. Lloyd George W. Bucey Roy Ruth
<u>S</u> San Dimas - La Verne Recreational Facilities Authority San Gabriel Country Club San Gabriel County Water District San Gabriel Valley Municipal Water District San Gabriel Valley Water Company Sloan Ranches Sonoco Products Company South Covina Water Service Southern California Edison Company	R. F. Griszka Fran Wolfe Philip G. Crocker Bob Stallings Robert H. Nicholson, Jr. Larry R. Sloan Elaine Corboy Anton C. Garnier S. R. Shermoen

Exhibit "L"

<u>Producer Name</u>	<u>Designee</u>
Southern California Water Company -San Dimas District	J. F. Young
Southern California Water Company -San Gabriel Valley District	J. F. Young
South Pasadena, City of	John Bernardi
Southwestern Portland Cement Company	Dale W. Heineck
Standard Oil Company of California	John A. Wild
Sterling Mutual Water Company	Bennie L. Prowett
Suburban Water Systems	Anton C. Garnier
Sully-Miller Contracting Company	R. R. Munro
Sunny Slope Water Company	Michael J. Hart
<u>T</u> Taylor Herb Garden	Paul S. Taylor
Texaco, Inc.	E. O. Wakefield
Tyler Nursery	James K. Mitsumori, Esq.
<u>U</u> United Concrete Pipe Corporation	Doyle H. Wadley
United Rock Products Corporation	William S. Capps, Esq.
<u>V</u> Valencia Heights Water Company	Herman Weskamp
Valley County Water District (Formerly Baldwin Park County Water District)	Stanley D. Yarbrough
Valley View Mutual Water Company	Robert T. Navarre
Via, H., Trust of	Marverna Parton
<u>W</u> Ward Duck Company	Richard J. Woodland
W. E. Hall Company	Thomas S. Bunn, Jr., Esq.
White, June G., Trustee	June G. Lovelady
Whittier, City of	Neil Hudson
Wilmott, Erma M.	Erma M. Wilmott

Exhibit "M"

WATERMASTER MEMBERS

FOR CALENDAR YEAR 1973

ROBERT T. BALCH (Producer Member), Chairman  
LINN E. MAGOFFIN (Producer Member), Vice Chairman  
RICHARD L. ROWLAND (Producer Member), Secretary  
BOYD KERN (Public Member), Treasurer  
WALKER HANNON (Producer Member)  
HOWARD H. HAWKINS (Public Member)  
M. E. MOSLEY (Producer Member)  
CONRAD T. REIBOLD (Public Member)  
HARRY C. WILLS (Producer Member)

STAFF

Carl Fossette, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1974

ROBERT T. BALCH (Producer Member), Chairman  
LINN E. MAGOFFIN (Producer Member), Vice Chairman  
RICHARD L. ROWLAND (Producer Member), Secretary  
BOYD KERN (Public Member), Treasurer  
WALKER HANNON (Producer Member)  
BURTON E. JONES (Public Member)  
M. E. MOSLEY (Producer Member)  
CONRAD T. REIBOLD (Public Member)  
HARRY C. WILLS (Producer Member)

STAFF

Carl Fossette, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

Exhibit "M"

M - 1

FOR CALENDAR YEAR 1975

ROBERT T. BALCH (Producer Member), Chairman  
LINN E. MAGOFFIN (Producer Member), Vice Chairman  
HARRY C. WILLS (Producer Member), Secretary  
BOYD KERN (Public Member), Treasurer  
WALKER HANNON (Producer Member)  
BURTON E. JONES (Public Member)  
D. J. LAUGHLIN (Producer Member)  
M. E. MOSLEY (Producer Member)  
CONRAD T. REIBOLD (Public Member)

STAFF

Carl Fossette, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1976

ROBERT T. BALCH (Producer Member), Chairman  
LINN E. MAGOFFIN (Producer Member), Vice Chairman  
HARRY C. WILLS (Producer Member), Secretary  
BOYD KERN (Public Member), Treasurer  
WALKER HANNON (Producer Member)  
BURTON E. JONES (Public Member)  
D. J. LAUGHLIN (Producer Member)  
M. E. MOSLEY (Producer Member)  
CONRAD T. REIBOLD (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1977

ROBERT T. BALCH (Producer Member), Chairman  
LINN E. MAGOFFIN (Producer Member), Vice Chairman  
HARRY C. WILLS (Producer Member), Secretary  
CONRAD T. REIBOLD (Public Member), Treasurer  
WALKER HANNON (Producer Member)  
BURTON E. JONES (Public Member)  
BOYD KERN (Public Member)  
D. J. LAUGHLIN (Producer Member)  
R. H. NICHOLSON, JR. (Producer Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer)  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1978

ROBERT T. BALCH (Producer Member), Chairman  
LINN E. MAGOFFIN (Producer Member), Vice Chairman  
D. J. LAUGHLIN (Producer Member), Secretary  
CONRAD T. REIBOLD (Public Member), Treasurer  
WALKER HANNON (Producer Member)  
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L. E. MOELLER (Producer Member)  
R. H. NICHOLSON, JR. (Producer Member)  
WILLIAM M. WHITESIDE (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1979

LINN E. MAGOFFIN (Producer Member), Chairman  
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BURTON E. JONES (Public Member)  
L. E. MOELLER (Producer Member)  
WILLIAM M. WHITESIDE (Public Member)

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Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1980

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CONRAD T. REIBOLD (Public Member), Treasurer  
ROBERT T. BALCH (Producer Member)  
ROBERT G. BERLIEN (Producer Member)  
ANTON C. GARNIER (Producer Member)  
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L. E. MOELLER (Producer Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1982

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R. H. NICHOLSON, JR. (Producer Member), Vice Chairman  
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ALFRED F. WITTIG (Public Member)

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FOR CALENDAR YEAR 1983

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ALFRED R. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1984

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R. H. NICHOLSON, JR. (Producer Member), Vice Chairman  
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CONRAD T. REIBOLD (Public Member), Treasurer  
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ALFRED R. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1985

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R. H. NICHOLSON, JR. (Producer Member), Vice Chairman  
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ANTON C. GARNIER (Producer Member)  
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ALFRED R. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1986

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R. H. NICHOLSON, JR. (Producer Member), Vice Chairman  
ROBERT G. BERLIEN (Producer Member), Secretary  
CONRAD T. REIBOLD (Public Member), Treasurer  
ROBERT T. BALCH (Producer Member)  
DONALD F. CLARK (Public Member)  
L. E. MOELLER (Producer Member)  
REGINOLD A. STONE (Producer Member)  
ALFRED R. WITTIG (Public Member)

STAFF

Jane M. Bray, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1987

LINN E. MAGOFFIN (Producer Member), Chairman  
REGINALD A. STONE (Producer Member), Vice Chairman  
L. E. MOELLER (Producer Member), Secretary  
ALFRED R. WITTIG (Public Member), Treasurer  
ROBERT T. BALCH (Producer Member)  
GERALD J. BLACK (Producer Member)  
DONALD F. CLARK (Public Member)  
EDWARD R. HECK (Producer Member)  
JOHN E. MAULDING (Public Member)

STAFF

Robert G. Berlien, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1988

LINN E. MAGOFFIN (Producer Member), Chairman  
REGINALD A. STONE (Producer Member), Vice Chairman  
L. E. MOELLER (Producer Member), Secretary  
ALFRED R. WITTIG (Public Member), Treasurer  
ROBERT T. BALCH (Producer Member)  
GERALD J. BLACK (Producer Member)  
DONALD F. CLARK (Public Member)  
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JOHN E. MAULDING (Public Member)

STAFF

Robert G. Berlien, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

FOR CALENDAR YEAR 1989

LINN E. MAGOFFIN (Producer Member), Chairman  
REGINALD A. STONE (Producer Member), Vice Chairman  
GERALD G. BLACK (Producer Member), Secretary  
ALFRED R. WITTIG (Public Member), Treasurer  
ROBERT T. BALCH (Producer Member) \*  
DONALD F. CLARK (Public Member)  
EDWARD R. HECK (Producer Member)  
BURTON E. JONES (Public Member)  
NELS PALM (Producer Member) \*\*  
THOMAS E. SCHOLLENBERGER (Producer Member)

STAFF

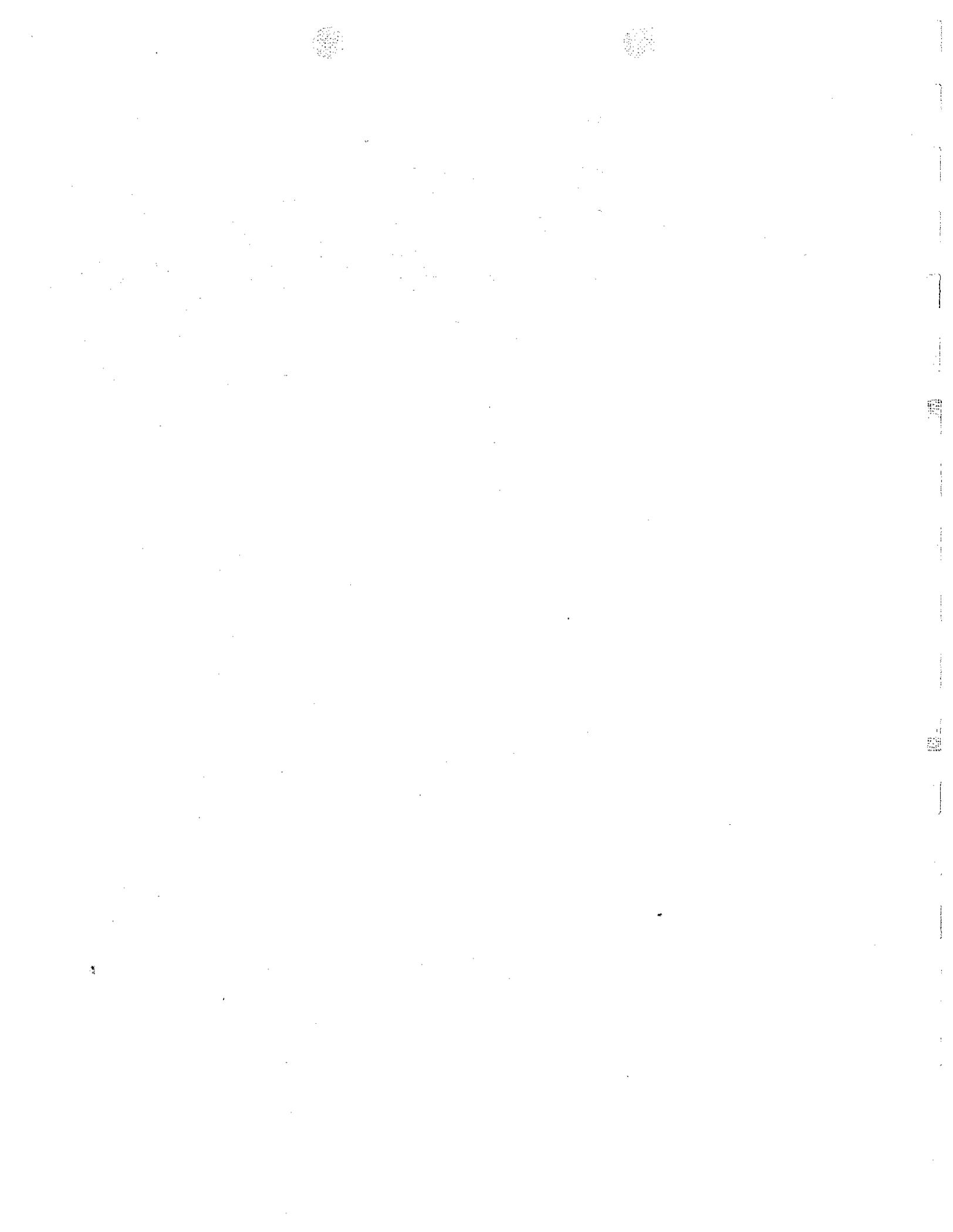
Robert G. Berlien, Assistant Secretary-Assistant Treasurer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

\* DECEASED APRIL 25, 1989

\*\* Appointed August 24, 1989, for the balance of the calendar year term, to replace deceased member, Robert T. Balch.

**APPENDIX F**

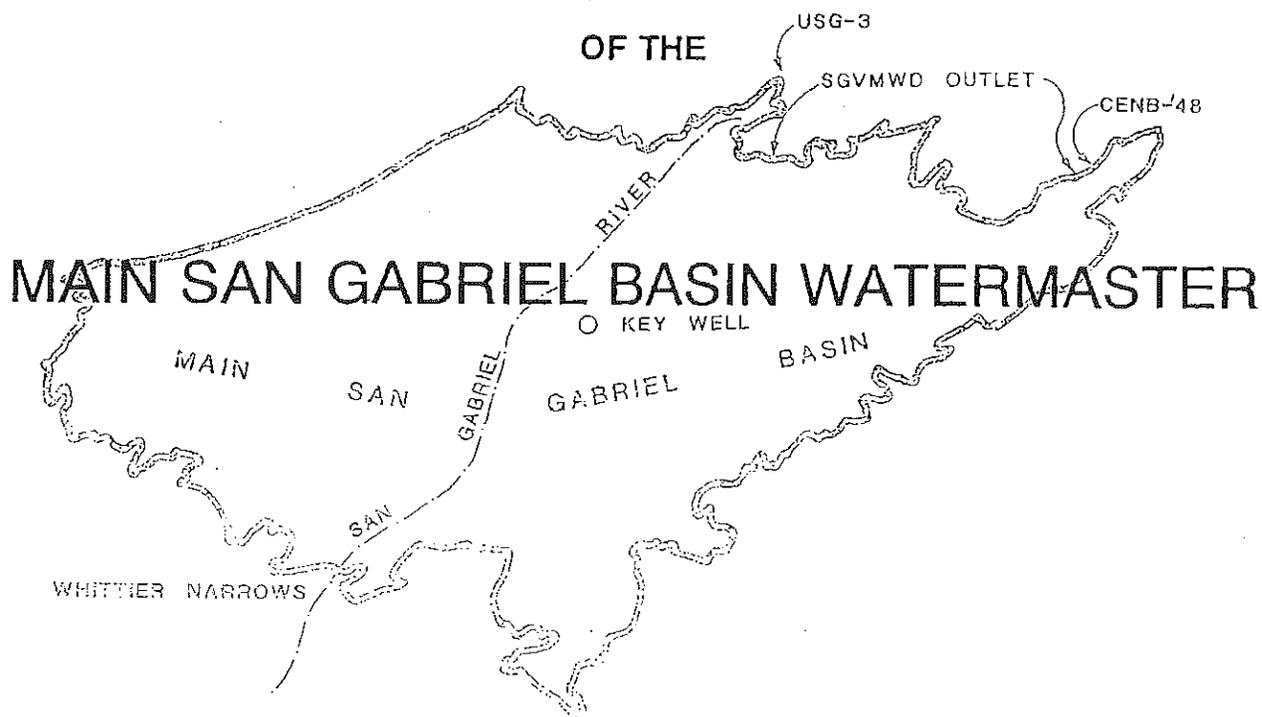
Rules and Regulations of the Main San  
Gabriel Basin Watermaster



WATERMASTERS:  
Linn E. Megoffin, Chairman  
Reginald A. Stone, Vice Chairman  
Gerald J. Black, Secretary  
Neil Palm, Treasurer  
Foyall K. Brown  
Richard W. Cantwell  
Burton E. Jones  
C. Robert Kelsor  
A. A. Krueger

John E. Maulding, Executive Officer  
Ralph B. Helm, Attorney  
Thomas M. Stetson, Engineer

## RULES AND REGULATIONS



UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT VS. CITY OF ALHAMBRA, ET AL  
CASE NO. 924128 - LOS ANGELES COUNTY

AS AMENDED  
OCTOBER 7, 1992  
RESOLUTION NO. 10-92-99

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RULES AND REGULATIONS OF  
MAIN SAN GABRIEL BASIN WATERMASTER

(As Revised, Amended, and Readopted by Resolution No. -92- , Adopted  
, 1992)

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The definitions set forth in the Judgment in Los Angeles County Superior Court Civil Action No. 924128, entitled, "Upper San Gabriel Valley Municipal Water District v. City Alhambra, et al." as amended (Judgment herein), as well as additional definitions relating specifically to Section 28 of these Rules and Regulations, are used herein with the same meanings and are listed in Appendix "A" hereof.

1. Offices and Records. Watermaster's offices and records shall be maintained at:

425 East Huntington Drive, Suite 200  
Monrovia, California 91016,  
Telephone (818) 305-1500  
Telefax (818) 305-1506

Said records shall be available for inspection by any Party during regular business hours. Copies of said records may be had upon payment of the costs of the duplication thereof and of any preparation costs pertaining thereto.

2. Watermaster Meetings and Holidays. Regular meetings of Watermaster shall be held at 1:30 P.M. on the first Wednesday of each and every month in the Council Chambers of the City of Monrovia, 415 South Ivy Avenue, Monrovia, California 91016.

(a) Holidays. The following holidays shall be observed by

1 Watermaster:

- 2 - January 1 (New Year's Day);
- 3 - The third Monday in January (Martin Luther King's Birthday);
- 4 - The third Monday in February (Presidents' Day);
- 5 - The last Monday in May (Memorial Day);
- 6 - July 4 (Independence Day);
- 7 - The first Monday in September (Labor Day);
- 8 - The second Monday in October (Columbus Day);
- 9 - November 11 (Veterans' Day);
- 10 -The fourth Thursday and the following Friday in November
- 11 Thanksgiving);
- 12 - December 25 (Christmas Day);
- 13 - Each employee's individual birthday, to be taken as a holiday
- 14 during the month of such birthday as approved by the Executive
- 15 Officer; and one floating holiday each year, to be designated by
- 16 the Executive Officer.

17

18

19 (1) If January 1, July 4, November 11, or December 25,

20 fall on a Sunday, the Monday following shall be that holiday and

21 if any of said dates fall on a Saturday, the preceding Friday shall

22 be that holiday.

23

24 (2) When any regular meeting of Watermaster shall fall

25 on a hereinabove designated Watermaster holiday (excepting

26 employees' birthdays and said floating holiday), said regular

27 meeting shall be held on the next succeeding regular business day

28

1 at the same time and at the same place as the said regularly  
2 scheduled meeting.

3 (b) Meeting Changes. Any changes in the time or place of said regular  
4 meeting shall be in compliance with the Judgment.

5 (c) Special Meetings. Special meetings of Watermaster may be called  
6 at any time by the Chairman or Vice-Chairman or by any three (3) members of  
7 Watermaster, by written notice in compliance with the Judgment. The calling  
8 notice shall specify the time and place of the special meeting and the business to  
9 be transacted. No other business shall be considered at such meetings.

10 (d) Adjournment. Any meeting of Watermaster may be adjourned to  
11 a time and place specified in the Order of Adjournment. Less than a quorum of  
12 Watermaster, or Watermaster's Secretary or Executive Officer, may so adjourn  
13 from time to time. A copy of the Order or Notice of Adjournment shall be  
14 conspicuously posted on or near the door of the place where the meeting was held  
15 or to be held, within twenty-four (24) hours after the adoption of the Order of  
16 Adjournment.

17 3. Quorum of Watermaster, Necessary Votes for Action and Roll Call of  
18 Votes. Five (5) members of Watermaster shall constitute a quorum for the transaction of  
19 its affairs. Action by the affirmative vote of five (5) members shall constitute action by  
20 the Watermaster, except that the affirmative vote of six (6) members shall be required:  
21 (a) to enter into any Cyclic Storage Agreement; or (b) to approve the purchase, spreading  
22 or injection of Supplemental Water for Ground Water recharge.

23 Any member of Watermaster may request a roll call vote on any question  
24 or motion considered and the ayes and noes thereon shall be recorded in the minutes of  
25

1 the meeting.

2 4. Agenda of Watermaster Meetings. Any person requesting that a matter be  
3 considered by Watermaster for action thereon, shall request the same in writing directed  
4 to Watermaster's Executive Officer for inclusion on the Agenda of the next scheduled  
5 meeting to be held at least ten (10) days after receipt of said request.

6  
7 5. Conduct of Meetings -- Roberts' Rules of Order. For the conduct of  
8 Watermaster meetings, Roberts' Rules of Order shall be followed and, without consent  
9 of Watermaster, the priorities of Watermaster business shall be that stated in the Agenda  
10 for a particular meeting.

11 6. Organization of Watermaster. At its first meeting each year, Watermaster  
12 shall elect a Chairman and Vice Chairman from its membership. It shall also select a  
13 Secretary and a Treasurer and may select such assistants as may be appropriate, any of  
14 whom may, but need not be, members of Watermaster.

15  
16 7. Minutes. Minutes of all Watermaster meetings shall be kept, which shall  
17 reflect all actions taken. Draft copies thereof shall be furnished to any Party who files  
18 a request therefor in writing with Watermaster. Said draft copies of minutes shall  
19 constitute notice of any Watermaster action therein reported and failure of a Party herein  
20 to request copies thereof shall constitute his waiver of notice.

21  
22 8. Designee to Receive Future Notices. Each Party who has not heretofore  
23 made a designation of the name and address of the person who shall receive service upon  
24 and delivery to Parties of various papers shall file with the Court, with proof of service  
25 of a copy thereof upon Watermaster, a written designation of the person to whom and the  
26 address at which all future notices, determinations, requests, demands, objections, reports  
27 and other papers and processes to be served upon that Party or delivered to the Party are  
28

1 to be so served or delivered.

2 (a) Substitute Designee. A later substitute designation filed and served in  
3 the same manner by any Party shall be effective from the date of filing as to any  
4 future notices, determinations, requests, demands, objections, reports and other  
5 papers and processes to be served upon or delivered to that Party.

6 (b) Service upon Designee. Delivery to or service upon any Party by  
7 Watermaster, by any other Party, or by the Court, of any item required to be  
8 served upon or delivered to a Party under or pursuant to the Judgment herein may  
9 be by deposit in the mail, first class, postage prepaid, addressed to the latest  
10 Designee of the Party to be served and at the address of said latest designation  
11 filed by that Party.  
12

13 (c) List of Designees. Watermaster shall maintain a current list of Party  
14 Designees to receive notices under the Judgment.  
15

16 9. Election of Producer Representatives.

17 (a) Notice of Nomination Election. Watermaster shall annually give thirty  
18 (30) days notice to all Parties that an election shall be held at Watermaster's  
19 regularly scheduled meeting in November of each year, for the purpose of  
20 nominating Producer representatives to Watermaster.  
21

22 (b) Voting. Nominations of six (6) Producer representatives shall be by  
23 cumulative voting in person or by proxy, with each Producer entitled to one (1)  
24 vote for each one hundred (100) acre-feet, or portion thereof, owned by him, of  
25 Base Annual Diversion Right, Prescriptive Pumping Right or Integrated Production  
26 Right, as defined in the Judgment. When the names placed in nomination exceed  
27 the number of representatives to be elected, votes shall be cast by ballot using  
28

1 official ballot forms provided by Watermaster. Each ballot form must list the  
2 Producer and Designee or proxy holder casting the vote, the Producer's voting  
3 entitlement, the names of the nominees for whom the votes have been cast, and  
4 the number of votes cast for each nominee.

5 (c) Conduct of Elections. Prior to the nomination of Producer  
6 representatives, the Chairman shall appoint tellers to conduct the election. Such  
7 tellers may include any member of Watermaster staff to monitor the canvassing  
8 and counting of votes. The tellers shall distribute the ballots, and, at the  
9 conclusion of the balloting, collect the ballots, retire to tabulate the votes, and  
10 promptly report the results of the election to the Parties present at the election.  
11

12 (1) In the event there is a challenge to the declared election  
13 results, the Chairman shall appoint three (3) Producer Parties as  
14 election inspectors who shall recount the election ballots and  
15 immediately certify the results of such election to Watermaster and  
16 others present at the election.  
17

18 (2) All ballots shall be considered confidential, and no ballot or  
19 information thereon shall be disclosed except to the appointed  
20 tellers and election inspectors, without the express permission of  
21 the Producer casting the ballot.  
22

23 10. Vacancy on Watermaster and Replacement. In the event of a vacancy on  
24 Watermaster, a successor shall be nominated at a special meeting of Watermaster and  
25 Producers to be called by Watermaster within ninety (90) days in the case of a Producer  
26 representative or by the action of the appropriate District Board of Directors in the case  
27 of a Public Representative. Subject to approval and appointment by the Court, such  
28

1 successor Watermaster shall fill the unexpired term of the Watermaster member replaced.

2 11. Watermaster Action Subject to Court Review. Any action, decision, rule  
3 or procedure of Watermaster shall be subject to review by the Court on its own motion  
4 or on timely petition or motion for an Order to Show Cause by any Party, as follows:

5 (a) Effective Date of Watermaster Action. Any order, decision or  
6 action of Watermaster shall be deemed to have occurred on the date that written  
7 notice thereof is mailed. Mailing of draft copies of Watermaster minutes which  
8 contain such order, decision, action, or contemplated action, to the Parties  
9 requesting the same shall constitute such notice to all Parties, as of the date of  
10 such mailing.  
11

12 (b) Notice of Motion. Any Party may, by a regularly noticed motion,  
13 petition the Court for a review of any Watermaster action or decision. Notice of  
14 such motion shall be mailed to Watermaster and to the Designees of all Parties.  
15 Unless ordered by the Court, such petition shall not operate to stay the effect of  
16 such Watermaster action.  
17

18 (c) Time for Motion. Within thirty (30) days of mailing of Notice of  
19 Watermaster Determination of Operating Safe Yield together with a statement of  
20 each Producer's entitlement thereunder, any affected Party may, by a regularly  
21 noticed motion, Petition the Court for an Order to Show Cause for review of said  
22 Watermaster findings, determination or entitlement and thereupon the Court shall  
23 hear Objections thereto and settle such dispute.  
24

25 Notice of motion to review any other Watermaster action or decision shall  
26 be served and filed within ninety (90) days after such Watermaster action or  
27 decision.  
28

1 (d) De Novo Nature of Proceedings. Upon filing of such motion for  
2 hearing, the Court shall notify the Parties of the date for taking evidence and  
3 argument, and shall review *de novo* the question at issue on the date designated.  
4 The Watermaster decision or action shall have no evidentiary weight in such  
5 proceedings.

6 (e) Decision. The decision of the Court in such proceedings shall be  
7 an appealable Supplemental Order in this case. When the same is final, it shall  
8 be binding upon the Watermaster and the Parties.

9  
10 12. Water Measuring Devices and Meter Test Program. Parties producing in  
11 excess of five (5) acre-feet per year shall, pursuant to these uniform rules, install and  
12 maintain in good operating condition, at the cost of each such Party, such necessary water  
13 measuring devices or meters as may be appropriate. Any such measuring device is  
14 subject to such inspection and testing as Watermaster may, from time to time, deem  
15 necessary. Upon testing, the meters shall be sealed by Watermaster and remain so sealed.

16  
17 Watermaster will conduct a formal meter-testing program to help the  
18 Parties accurately report their Production. Watermaster intends to test every meter under  
19 its jurisdiction at least once every two (2) years.

20 (a) Tests of Meters Which Supply Watermaster. At least once every  
21 two (2) years, Watermaster shall request certified meter tests of all meters of  
22 Responsible Agencies through which Supplemental Water is furnished to  
23 Watermaster and of the meters which measure all Cyclic Storage deliveries  
24 authorized by Watermaster.

25 (b) Wells. Water wells shall be equipped with a positive displacement,  
26 velocity impeller, venturi or orifice-type meter with a totalizer. The totalizer shall  
27  
28

1 be correctable only by changing mechanical gear equipment. The meter shall be  
2 accessible and installed according to good design practices. Watermaster  
3 personnel shall assist any Party having any question as to installation requirements.

4 (c) Calibrated Test Equipment. Watermaster or its approved meter  
5 tester will maintain a complete line of carefully calibrated test equipment. This  
6 equipment is the standard with which all water meters must be compared. The  
7 tolerance for each meter is plus (+) or minus (-) five percent (5%) of the standard.  
8 Watermaster may require an aggregate accuracy of plus (+) or minus (-) two  
9 percent (2%).

10  
11 (d) Repair or Replacement of Inaccurate Meters. Defective or  
12 inaccurate meters must be repaired within thirty (30) days of receipt of notice  
13 thereof from Watermaster.

14  
15 (e) Surface Diversions. Surface Water Diversions shall be measured  
16 with a weir and recorder or meter capable of accurately measuring and recording  
17 such Diversions.

18 (f) Interim Meter Tests. Should a Producer discover that the meter  
19 which measures the water Production from his well is measuring inaccurately, he  
20 shall first notify Watermaster thereof, have the meter retested and, if measuring  
21 inaccurately, then have the same repaired at the earliest practical and reasonable  
22 time. Upon the completion of such repair, such Producer shall immediately have  
23 such meter tested and sealed by Watermaster and it shall remain so sealed. Such  
24 testing and sealing will be accomplished by Watermaster upon request therefor by  
25 said Producer or said repaired meter may be tested and sealed by any meter tester  
26 authorized by Watermaster, as provided in Subsection (g) of this Section 12.  
27  
28

1 Results of such meter tests shall be furnished to Watermaster within ten (10) days  
2 of testing, on forms provided by Watermaster.

3 (g) Watermaster Approved Meter Testers. Persons, firms or  
4 corporations in the business of repairing and/or testing water measuring devices  
5 may be approved by Watermaster to test and seal meters on behalf of Watermaster  
6 by submitting their qualifications therefor to Watermaster and obtaining  
7 Watermaster's approval to perform meter tests and seal such meters as agents of  
8 Watermaster. The name, address and telephone number of all such Watermaster  
9 approved meter testers shall be maintained at and be available from the office of  
10 Watermaster.  
11

12 (h) Meter Seal by Watermaster and Notification of Meter Maintenance.  
13  
14 At the completion of all meter tests Watermaster's seal shall be placed on the  
15 meter, if the meter test demonstrates that the meter is within the accuracy standard  
16 of five percent (5%).

17 Such sealing then requires that Watermaster be notified in writing  
18 within seven (7) days if Watermaster's seal has been broken or if any of the  
19 following events occur: (a) the meter is to be repaired or recalibrated; (b) there  
20 is any other interference affecting the meter or Watermaster's seal; (c) the meter  
21 is to be relocated even if Watermaster's seal is still intact; or (d) a new meter is  
22 to be installed.  
23

24 (i) Estimation of Production Due to Meter Maintenance. When a  
25 Producer must estimate Production due to meter maintenance, he shall consult with  
26 Watermaster or its engineer for approval of the method of estimation. A copy of  
27 the estimate calculations shall be supplied to Watermaster with the corresponding  
28

1 Quarterly Production Report.

2 13. Reports of Producers to Watermaster. Each Producer with an adjudicated  
3 right in excess of five (5) acre-feet per year and each Producer with an Overlying Right  
4 in any amount shall file with Watermaster a quarterly report of water Produced from the  
5 Basin or Relevant Watershed, on forms provided by Watermaster. Quarterly Production  
6 Reports shall be so filed no later than the last day of the month next succeeding the end  
7 of the relevant quarter, i.e. April 30, July 31, October 31 and January 31.  
8

9 (a) Adjudicated Right in Excess of Five (5) Acre-Feet Not to be  
10 Reduced to Minimal Producer by Transfer. Any portion of: (1) the Base Annual  
11 Diversion Right of a Diverter; (2) the Prescriptive Pumping Right of a Pumper;  
12 or (3) the Diversion Component and Prescriptive Pumping Component of an  
13 Integrated Producer, adjudicated in any amount in excess of five (5) acre-feet per  
14 year [at the time that Judgment herein was entered, January 4, 1973], that is or  
15 may be reduced to five (5) acre-feet or less by assignment or transfer of rights, as  
16 permitted by Section 55 of the Judgment, shall not enjoy the status of a Minimal  
17 Producer as defined in Section 10 (o) of the Judgment.  
18

19 (b) Notice to Watermaster of Transfers of Water Rights. Within fifteen  
20 (15) days thereof all Parties shall notify Watermaster of any transfer, assignment,  
21 license or lease of any water right, or portion thereof, not shown in the Judgment  
22 or previously filed with Watermaster and such transferee must be or become a  
23 Party to the action (as provided in Section 57 of the Judgment). All Parties are  
24 required to notify Watermaster of any subsequent assignment, transfer, license or  
25 lease of water rights granted or acquired by them and they shall file a duly  
26 acknowledged copy of the document(s) therefor with Watermaster, within fifteen  
27  
28

1 (15) days after execution and acknowledgement of such document(s).

2 For such assignment, transfer, license or lease of water rights to be  
3 effective for, or be deemed by Watermaster to apply to, Production in a particular  
4 Fiscal Year (July 1 - June 30), the document(s) therefor shall be executed and  
5 acknowledged prior to the end of said Fiscal Year (June 30) and copies thereof  
6 showing such acknowledgement must be received by Watermaster prior to July 15,  
7 following the end of said particular Fiscal Year. The transferee must be, or  
8 petition to become, a Party to the action within ninety (90) days following such  
9 assignment, transfer, license or lease of water rights.  
10

11 When the term of a temporary assignment, transfer, license or lease of  
12 water rights extends beyond the end of the current Fiscal Year, it shall be the  
13 obligation of the transferee thereof to annually, during the month of July of each  
14 Fiscal Year during said term, notify Watermaster of said transferee's intention to  
15 exercise said water right during the then current applicable Fiscal Year.  
16

17 (c) Conveyance of Water Right with Conveyance of Property. Parties  
18 are advised that when a water right owner conveys the property where a water  
19 right was developed, the said water right shall not be conveyed with such property  
20 unless and until the appropriate notice procedures established by Watermaster have  
21 been complied with. When it is intended to transfer or acquire adjudicated water  
22 rights in the Basin or Relevant Watershed, the Parties thereto are advised to use  
23 the appropriate forms contained in exhibits to these Rules and Regulations and to  
24 notify Watermaster of such transfers by furnishing a copy of such transfer  
25 documents(s) within fifteen (15) days of execution and acknowledgement thereof.  
26

27 (d) Conveyance of Water Right without Conveyance of Property.  
28

1 Parties are also advised that the owner of an adjudicated water right herein-(except  
2 an Overlying Right) may transfer the same (temporarily or permanently) without  
3 conveyance of the property where the water right was developed.

4 (e) Transfer of Overlying Right. The transfer and use of Overlying  
5 Rights shall be limited (as provided in Section 21 of the Judgment) as exercisable  
6 only on specifically defined Overlying Lands and they cannot be separately  
7 conveyed or transferred apart therefrom.

8 (f) Intervention Stipulation Required. No conveyance of water rights  
9 to a person who is not a Party to the subject action shall be recognized by  
10 Watermaster unless the transferee thereof files with Watermaster a Stipulation in  
11 Intervention to the subject action (Exhibit "E") agreeing to be bound by the  
12 Judgment herein, and until the Court approves said Stipulation and Intervention.

13 (g) Notice Required. Any transfer of water rights shall be effective  
14 only when the requirements of this Section 13 are met and when the Parties file  
15 with Watermaster, within fifteen (15) days of such transfer, a copy of the transfer  
16 document(s) which:

- 17 (1) Identifies both the transferee(s) and the transferor(s);
- 18 (2) Accurately recites the total quantity (in acre-feet) of water  
19 rights transferred;
- 20 (3) Is executed by both the transferee(s) and the transferor(s);
- 21 (4) Is acknowledged by both transferee(s) and transferor(s) in  
22 a form sufficient for recordation;
- 23 (5) Lists the Designee(s) of both the transferor(s) and  
24 transferee(s) to receive future service and notice of papers and process; and  
25  
26  
27  
28

1 (6) Is accompanied by a map of the service area  
2 where the water was used by transferor(s) (assignors) and a map of the  
3 service area where the water is intended to be used by the transferee(s)  
4 (assignees). Maps need not be furnished for temporary transfers of water  
5 rights unless specifically requested by Watermaster.  
6

7 (h) Approved Forms of Transfer Documents and Other Forms.

8 Approved forms of such transfer documents and other approved Watermaster  
9 forms are attached hereto, marked and identified as follows:

10 Exhibit "A" - Permanent Transfer of Water Rights--Prescriptive  
11 Pumping Right

12 Exhibit "B" - Permanent Transfer of Water Rights--Base Annual  
13 Diversion Right

14 Exhibit "C" - Permanent Transfer of Water Rights--Integrated  
15 Production Right

16 Exhibit "D" - Temporary Assignment or Lease of Water Right

17 Exhibit "E" - Stipulation Re Intervention After Judgment

18 Exhibit "F" - Designee to Receive Future Notices for and on Behalf of  
19 Defendant(s)

20 Exhibit "G" - Notice of Transfer of Overlying Rights With Property to  
21 Which They are Appurtenant.

22 Exhibit "H" - Application To Drill Water Well

23 Exhibit "I" - Application To Modify Existing Water Well

24 Exhibit "J" - Application To Destroy Water Well

25 Exhibit "K" - Application For Water Treatment Facility

26 (i) Presumption as to Unexercised Rights. Unless otherwise noted on  
27 the above mentioned transfer documents(s), it will be presumed by Watermaster  
28 that the permanent transfer of water rights will include all unexercised rights

1 thereunder, including authorized carry-over of unused rights.

2 14. Operating Safe Yield. Watermaster shall annually determine the Operating  
3 Safe Yield applicable to the succeeding Fiscal Year and estimate the same for the next  
4 succeeding four (4) Fiscal Years. Said determination shall be made at the close of the  
5 hearing thereon, which shall be commenced at Watermaster's regular meeting in May of  
6 each year. Watermaster shall notify each Pumper and Integrated Producer of his share  
7 thereof, stated in acre-feet per Fiscal Year. Thereafter, no Party may produce in any  
8 Fiscal Year any Consumptive Use Portion of any Overlying Right, or an amount in excess  
9 of the sum of his Diversion Right, if any, plus his Pumper's Share of such Operating Safe  
10 Yield, or his Integrated Production Right, or the terms of any Cyclic Storage Agreement,  
11 without being subject to Assessment for the purpose of purchasing Replacement Water.  
12 The rate of such Assessment shall be established at the same meeting at which the  
13 Operating Safe Yield is established, and it may be estimated for the years for which  
14 Operating Safe Yield is estimated. In establishing the Operating Safe Yield, the  
15 Watermaster shall follow all physical, economic, and other relevant parameters provided  
16 in the Judgment herein. Said determination shall be made in accordance with the  
17 following:  
18  
19

20  
21 (a) Preliminary Determination. At Watermaster's regular meeting in  
22 April of each year, Watermaster shall make a Preliminary Determination of the  
23 Operating Safe Yield of the Basin for each of the succeeding five (5) Fiscal Years.  
24 Said determination shall be made in the form of a report containing a summary  
25 statement of the considerations, calculations and factors utilized by Watermaster  
26 in arriving at the said Operating Safe Yield.  
27

28 (b) Notice of Hearing. A copy of said Preliminary Determination

1 Report shall be mailed to all Parties at least ten (10) days prior to a hearing  
2 thereon to be commenced at Watermaster's regular meeting in May of each year,  
3 at which time objections or suggested corrections or modifications of said  
4 determination shall be considered.

5 (c) Watermaster Final Determination and Review Thereof. Within  
6 thirty (30) days after completion of said hearing, Watermaster shall mail to each  
7 Pumper, Diverter, Overlying User and Integrated Producer a Final Report and  
8 Determination of said Operating Safe Yield for each such Fiscal Year, together  
9 with a statement of the Producer's entitlement in each such Fiscal Year stated in  
10 acre-feet. Any affected Party, within thirty (30) days of mailing of notice of said  
11 Watermaster determination, may petition the Court for an Order to Show Cause  
12 for Review of said determination in accordance with Section 11 hereof.

13  
14  
15 15. Carry-over Rights.

16 (a) Pumping. Any Pumper's Share of Operating Safe Yield, and the  
17 Production right of any Integrated Producer which is not Produced in a given year  
18 may be carried over and accumulated for one (1) year.

19 (b) Diversions. Diverters shall be entitled to Divert for direct use up  
20 to two hundred percent (200%) of their Base Annual Diversion Right in any Fiscal  
21 Year, provided, that the aggregate quantities of water Diverted in any consecutive  
22 ten (10) Fiscal Year period shall not exceed ten (10) times such Diverter's Base  
23 Annual Diversion Right.

24 (c) Overlying Rights. By definition, there is no carry-over of Overlying  
25 Rights.

26 (d) Presumption as to Carry-over Rights. The first water Produced in  
27  
28

1 the succeeding Fiscal Year shall be deemed Produced pursuant to such Producer's  
2 Carry-over Rights.

3 16. Special Hearings. Watermaster shall conduct such special hearings as  
4 deemed appropriate upon thirty (30) days notice to the Parties hereto.

5 17. Policy Decisions. No policy decision shall be made by Watermaster until  
6 its next regular meeting after the question involved has been raised for discussion at a  
7 Watermaster meeting and noted in the draft of minutes thereof.

8 18. Assessments. Watermaster may levy and collect Assessments from the  
9 Producer Parties based upon Production during the preceding Fiscal Year. Said  
10 Assessments may be for one or more of the following purposes:

11 (a) Administration Costs. At its regular May meeting Watermaster  
12 shall adopt a proposed budget for the succeeding Fiscal Year and within fifteen  
13 (15) days shall mail a copy thereof to each Party, together with a statement of the  
14 level of Administration Assessment levied by Watermaster and which will be  
15 collected for purposes of raising funds for said budget. Said Assessments shall be  
16 uniformly applicable to each acre-foot of Production.

17 (b) Replacement Water Costs. Replacement Water Assessments shall  
18 be collected from each Producer on account of such Party's Production in excess  
19 of its Diversion Rights, Pumper's Share or Integrated Production Right, and on  
20 account of the consumptive use portion of Overlying Rights, computed at the  
21 applicable rates established by Watermaster, consistent with Watermaster's  
22 Operating Criteria (Exhibit "H" to the Judgment).

23 (c) Make-up Obligation. An Assessment shall be levied and collected  
24 equally on account of each acre-foot of Production, which does not bear a  
25  
26  
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28

1 Replacement Water Assessment hereunder, to pay all necessary costs of  
2 administration and satisfaction of the Make-up Obligation. Such Assessment shall  
3 not be applicable to water Production of an Overlying Right.

4 (d) In-Lieu Water Cost. An Assessment may be levied against all  
5 Pumping to pay reimbursement for In-Lieu Water Cost except that such  
6 Assessments shall not be applicable to the non-consumptive use portion of  
7 Overlying Rights.  
8

9 (e) Waivers Possible for Water Quality Improvement or Protection. In  
10 accordance with Section 45 (e) of the Judgment, a Producer of water from the  
11 Basin for the purpose of testing, protecting, or improving water quality, may apply  
12 in writing by verified petition or application (hereinafter "Application") to  
13 Watermaster, for approval of such water Production free of all or any part of  
14 Watermaster Assessments thereon, and for waiver of one or more of the provisions  
15 of Sections 25, 26, and 57 of said Judgment, where appropriate, upon terms and  
16 conditions to be established by Watermaster after a noticed hearing on such  
17 Application.  
18

19 A waiver of Assessment shall not be granted for the purpose of  
20 removal of contamination or improvement of the quality of Basin water which has,  
21 or could have, resulted from the activity of the Applicant for such waiver.  
22

23 In the event cleanup or Treatment Facilities are installed in the  
24 Basin by or for the benefit of a Producer, and the Basin water receiving treatment  
25 from said Treatment Facilities is subsequently delivered by or used for beneficial  
26 purposes of such Producer, the Production of such water shall not be entitled to  
27 waiver or modification of Watermaster Assessments thereon.  
28

1                   Notwithstanding the above, if Basin water is treated and  
2 immediately percolated or reintroduced to the Basin by way of spreading,  
3 injection, or otherwise, for purposes of this Section 18 (e), its Production may,  
4 upon Watermaster's approval of an Application to waive or modify its  
5 Assessments on the same, be entitled thereto. In any event, such water shall only  
6 be percolated or reintroduced to the Basin with the consent of Watermaster and  
7 said water shall be of a quality acceptable to Watermaster.  
8

9                   Although all Production from the Basin must be reported to  
10 Watermaster on a timely basis in accordance with these Rules and Regulations,  
11 Production which is granted a waiver of Assessment hereunder may, by reason of  
12 certain circumstances as specifically determined by Watermaster, be deemed an  
13 unused right and entitled to carry-over, in accordance with Section 49 of the  
14 Judgment.  
15

16                   (f)     Application for Waiver of Assessment. An Application for Waiver  
17 of Assessment, as above set forth, shall contain all relevant information relied  
18 upon by Applicant which he believes justifies the granting of said Application.  
19 All such Applications shall explain the special needs and circumstances for such  
20 Production and specify the approximate amounts to be Produced, the time frame  
21 of such Production, the specific location(s) of the points(s) of extraction(s), and  
22 the place of intended disposal of such water, as well as any supplemental or  
23 additional information requested by Watermaster. All such extractions shall be  
24 metered and reported quarterly to Watermaster, along with all other Basin  
25 Production, in accordance with these Rules and Regulations.  
26  
27

28                   Should an Application contain incomplete information or should

1 Watermaster desire additional, other, or further information in relation thereto, the  
2 same shall also be furnished and verified by Applicant.

3 (g) Public Hearing and Effective Date. Within thirty (30) days of the  
4 filing of any such Watermaster accepted Application, Watermaster shall give at  
5 least thirty (30) days notice to the Designees of all Parties that it will hold a  
6 public hearing on said Application. Watermaster may, after the conclusion of said  
7 hearing, under then existing conditions, waive all or any part of its Assessments  
8 on such Production, such waiver shall not be effective prior to the date of the  
9 filing of said accepted Application, and may also waive the provisions of Sections  
10 25, 26, and 57 of the Judgment herein.

11  
12 The effective date for the granting of an Application to waive or  
13 modify Watermaster Assessments shall be no later than ten (10) days after  
14 approval thereof by Watermaster and it shall continue for the period of time  
15 specified therein, unless sooner terminated or extended by Watermaster.  
16

17 Nothing herein is intended to allow an increase in any Producer's  
18 annual entitlement under the Judgment.

19 19. Levy, Notice and Adjustment of Assessments. At its regular May meeting  
20 Watermaster shall also fix the rate(s) of or levy applicable Administration Assessments,  
21 Replacement Water Assessments, Make-up Obligation Assessments, and In-Lieu Water  
22 Cost Assessments, if any. Watermaster shall give written notice of all applicable  
23 Assessments to each Party on or before August 15 of each year.

24  
25 (a) Payment. All Watermaster Assessments shall be due and payable  
26 on or before September 20, following such Assessment levy or Assessment rate  
27 fixing, subject to the rights reserved in Section 37 of the Judgment, and such  
28

1 Assessment shall be paid or become delinquent after September 20.

2 (b) Delinquency. Any Assessment payment which becomes delinquent  
3 shall bear interest at the annual prime interest rate in effect on the first business  
4 day of August of each year, plus one percent (1%). Said prime interest rates shall  
5 be that fixed by the Bank of America NT&SA for its preferred borrowing on said  
6 date. Said prime interest rate plus one percent (1%) shall be applicable to any  
7 said delinquent Assessment payment from the due date thereof until paid,  
8 provided, however, in no event shall any said delinquent Assessment bear interest  
9 at a rate of less than ten percent (10%) per annum. Such delinquent Assessment  
10 and said interest thereon may be collected in a Show Cause proceeding in the  
11 subject action or in any other legal proceeding instituted by Watermaster, and in  
12 such proceeding the Court may allow Watermaster its reasonable costs of  
13 collection, including attorney's fees.

14 (c) Adjustments. By reason of Watermaster's inability to control the  
15 direct costs and other charges incurred for Supplemental Water obtained from  
16 Responsible Agencies, it may be necessary from time to time for Watermaster to  
17 adjust the foregoing Assessments. Such Assessments may only be adjusted after  
18 giving at least 15 days Notice to all Parties of the meeting at which such  
19 adjustments will be considered by Watermaster.

20 20. Responsibility for Watermaster Assessments. Parties Producing water from  
21 the Relevant Watershed and Party lessors or assignors of water rights shall be responsible  
22 for Watermaster Assessments levied upon all Production. The temporary lessor or  
23 assignor of water rights shall be ultimately responsible for all Watermaster Assessments  
24 of non-party lessees or assignees; such non-party lessees or assignees act as the  
25  
26  
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28

1 Production agent of the lessor or assignor to the extent of the amount of such temporary  
2 lease or assignment.

3 21. Over and/or Under Reporting.

4 (a) Over Reporting. Watermaster shall make refunds, in whole or in  
5 part, of Assessments theretofore paid, to any Producer who has erroneously  
6 overstated his Production in any sworn statement for a quarterly period required  
7 hereunder and who has overpaid any Assessment for that quarter, but only upon  
8 compliance by the Producer with the procedure hereinafter set forth and within the  
9 time hereinafter provided.

10 Any such Producer, within one (1) year of the last day for filing of  
11 the said sworn statement for the quarterly period in question, may file a verified  
12 application with Watermaster requesting a refund of that portion of any  
13 Assessment claimed to have been paid by reason of that Producer's erroneous  
14 overstatement of Production. If incomplete information is contained in said  
15 application, or if Watermaster desires other, further, or additional information than  
16 that set forth in said application, the same shall also be furnished by a verified  
17 statement mailed to Watermaster on behalf of Applicant within thirty (30) days of  
18 the mailing of the written notice or request therefor from Watermaster to the  
19 Producer's Designee, at his address as shown by Watermaster records, or the  
20 application shall be deemed abandoned. Such request by Watermaster shall not  
21 cause any application otherwise timely filed to be considered as not filed within  
22 said one (1) year period. The Watermaster may pay any refund claimed without  
23 a hearing thereon, but no application shall be denied, in whole or in part, without  
24 a hearing being accorded to the Applicant, in which said hearing the Applicant

1 shall have the burden of proof. Any determination by Watermaster on any matter  
2 in connection with said application shall be final and conclusive upon the said  
3 Producer.

4 Any refund authorized to be paid under the provisions of this  
5 Section may be paid only out of moneys realized from the appropriate  
6 Watermaster Assessment levied or thereafter raised. Under election of the  
7 Producer, any refund determined by Watermaster to be owing may be credited to  
8 the Producer against any subsequent Assessments which might become due and  
9 owing from him to Watermaster. No refunds shall be made except as authorized  
10 by this section and this section may not apply to over reporting unless there has  
11 been compliance with the provisions of Section 12 hereof.  
12

13  
14 (b) Under Reporting. If Watermaster shall have probable cause to  
15 believe that the Production of water from any water Producing facility is in excess  
16 of that disclosed by the sworn statements covering such water Producing facility,  
17 Watermaster may cause an investigation and report to be made concerning the  
18 same. Watermaster may fix the amount of water Production from such facility at  
19 an amount not to exceed the maximum Production capacity thereof, provided,  
20 however, where a Watermaster tested water measuring device is permanently  
21 attached to such facility, the record of Production as so disclosed by such  
22 measuring device shall be presumed to be accurate and the burden of proof shall  
23 be upon Watermaster to establish the contrary.  
24

25 A determination by Watermaster that a Producer has under reported  
26 Production shall require Watermaster to give written notice thereof to such  
27 Producer by mailing such notice to his Designee, at the address shown by  
28

1 Watermaster records. A determination of under reporting made by Watermaster  
2 shall be conclusive on any Producer who has Produced water from the facility in  
3 question and the Watermaster Assessments based thereon, together with interest  
4 as set forth in Section 19 (b) hereof, shall be payable forthwith, unless such  
5 Producer shall file with Watermaster within ten (10) days after the mailing of such  
6 notice, a written protest setting forth the ground or grounds for protesting the  
7 amount of Production so fixed or the Assessments and interest thereon.  
8

9 Upon the filing of such protest, Watermaster shall hold a hearing  
10 at which time the total amount of water Production and the Assessments and  
11 interest thereon shall be determined, which action shall be conclusive if based  
12 upon substantial evidence. A notice of such hearing shall be mailed to protestant  
13 at least ten (10) days before the date fixed for the hearing. Notice of the  
14 determination by the Watermaster at the close of such hearing shall be mailed to  
15 the protestant. The Producer shall have twenty (20) days from the date of mailing  
16 of such notice to pay the Assessments fixed by Watermaster and interest thereon,  
17 as fixed herein, before the same becomes delinquent.  
18

19 (c) Delinquent Assessments; Interest; Costs; and Attorney's Fees.  
20 Watermaster may bring suit in the Court having jurisdiction against any Producer  
21 of water from the Basin or Relevant Watershed for the collection of any  
22 delinquent Assessment and interest thereon. The Court having jurisdiction of the  
23 suit may, in addition to any delinquent Assessment, award interest and reasonable  
24 costs, including attorney's fees.  
25

26 22. Information Concerning Offers to Purchase, Sell or Lease Water Rights.  
27

28 Watermaster shall maintain a record of any offer to purchase, sell or lease water rights

1 reported to Watermaster, for the purpose of encouraging the orderly transfer of such rights  
2 by acting as a clearing house for such information. Any person desiring to purchase, sell,  
3 or lease such rights may examine such Watermaster records.

4 23. Watermaster Control of Spreading and Ground Water Storage. Except for  
5 the exercise of non-consumptive uses and performance of Cyclic Storage Agreements with  
6 Watermaster, no Party shall spread water within the Basin or Relevant Watershed for  
7 subsequent recovery or Watermaster credit without prior Watermaster written permission  
8 to do so because Watermaster has sole custody and control of all Ground Water storage  
9 rights in the Basin.

10  
11 24. Watermaster Annual Report. Watermaster shall annually file with the  
12 Court and mail to the Parties a report of all Watermaster activities during the preceding  
13 Fiscal Year, including an audited statement of all accounts and financial activities of  
14 Watermaster, summaries of Diversions and Pumping, and all other pertinent information.  
15 To the extent practical, said report shall be mailed to all Parties and filed with the Court  
16 on or before November 1 of each Year.

17  
18 25. Watermaster Stipulation Re Intervention After Judgment. Attached hereto  
19 and marked "Exhibit E" is a form of Stipulation for Intervention After Judgment which  
20 Watermaster will execute, file with the Court if accompanied by the necessary filing fee,  
21 obtain a Court hearing date thereon, give Notice thereof and attempt to obtain an  
22 approving Court Order thereon.

23  
24 26. Uniform Rules and Conditions of Cyclic Storage Agreements.

25 (a) Application for Cyclic Storage Agreements. Any person or entity,  
26 private or public, desiring to spread and store Supplemental Water within the  
27 Basin for subsequent recovery and use or for Watermaster credit shall make  
28

1 application to Watermaster for a Cyclic Storage Agreement pursuant to these  
2 Uniform Rules and Conditions. Watermaster shall have first call on Supplemental  
3 Water for Replacement Water, Make-up Water and for the "Alhambra Exchange"  
4 before such water is made available for Cyclic Storage Agreements.

5 (b) Purpose of Cyclic Storage Agreements. All Cyclic Storage  
6 Agreements shall be for the utilization of Ground Water storage capacity of the  
7 Basin and for cyclic or regulatory storage of Supplemental Water.

8 (c) Available Storage Capacity. In considering the available Ground  
9 Water storage capacity of the Basin for such Agreements, Watermaster shall take  
10 into account the operation of the Basin under the Physical Solution provisions of  
11 the Judgment.

12 (d) Provisions of Cyclic Storage Agreements. Any such Agreement  
13 shall include provisions for:

14 (1) Watermaster control of all spreading (or injection) and  
15 extraction scheduling and procedures for such stored waters:

16 a) The time, place, and amount of said spreading shall  
17 be approved in advance by Watermaster provided, however, that  
18 when the water level of the Baldwin Park Key Well is at or above  
19 elevation two-hundred fifty (250) feet, spreading activities shall be  
20 restricted to the easterly portion of the Basin at water spreading  
21 facilities designated in advance by Watermaster, unless otherwise  
22 approved by the Court;

23 (2) Calculations by Watermaster of any special costs, damages  
24 or burdens resulting from such operation;

1 (3) Priorities for Cyclic Storage Agreements in the following  
2 order:

3 a) Responsible Agencies on the basis of their relative  
4 requirements for Replacement Water within their respective  
5 corporate boundaries,

6 b) Other Parties on the basis of priority of application  
7 to Watermaster for such Agreements, and  
8

9 c) Non-parties;

10 (4) Determinations by Watermaster of, and accounting for, all  
11 losses in stored water, assuming that such stored water floats on top of the  
12 Ground Water supplies, and accounting for all losses of water which  
13 otherwise would have replenished the Basin. Such losses of stored water  
14 shall be assigned by Watermaster as follows:  
15

16 a) First losses by non-parties in the reverse priority of  
17 the earliest original dates of their respective Cyclic Storage  
18 Agreements, to the whole of such non-parties' stored water,

19 b) The next losses by Parties who are not Responsible  
20 Agencies in reverse priority of the earliest original dates of their  
21 respective Cyclic Storage Agreements, to the whole of their stored  
22 water, and  
23

24 c) The last losses by Responsible Agencies to be shared  
25 on the basis of water actually in storage in the Basin at the time of  
26 the loss of such stored water;  
27

28 (5) The priorities for spreading of Supplemental Water are

hereby established as follows, in the order of their priority:

First: Supplemental Water ordered by Watermaster from Responsible Agencies for direct delivery to the Basin as Replacement Water,

Second: Supplemental Water for delivery to the Basin for storage under Cyclic Storage Agreements between Watermaster and Responsible Agencies. In the event that more than one Responsible Agency wishes to deliver water to Cyclic Storage simultaneously and there is inadequate spreading capacity available, deliveries by each Responsible Agency so desiring to deliver Supplemental Water shall be scheduled so that the total quantity of water in Cyclic Storage of those Agencies can be increased proportionately in percent of their maximum allowed Cyclic Storage,

Third: Supplemental Water for delivery to Individual Cyclic Storage accounts of Parties to the Judgment. In the event that more than one Party wishes to deliver water to such Cyclic Storage accounts simultaneously and there is inadequate spreading capacity available, deliveries for each such Party shall be scheduled so that the total quantity of water in such Parties' Individual Cyclic Storage accounts can be increased proportionately in percent of their maximum allowed Cyclic Storage, and

Fourth: Non-Parties as established by Watermaster at the time; and

(6) Payment to Watermaster for the benefit of Parties in said action of all special costs, damages or burdens incurred (without any

1 charge, rent, assessment or expense as to Parties to said action by reason  
2 of the adjudicated proprietary character of said storage rights, nor credit for  
3 offset for benefits resulting from such storage); provided, no Party shall  
4 have any direct interest in or control over such contracts or the operation  
5 thereof by reason of the adjudicated right of such Party. Watermaster has  
6 sole custody and control of all Ground Water storage rights in the Basin  
7 pursuant to the Physical Solution in the Judgment and all said Agreements  
8 are subject to review and approval of the Court.  
9

10 (e) Terms of Cyclic Storage Agreements and Extensions. The term of  
11 such Agreements shall not exceed five (5) years but may be extended for  
12 additional terms, not to exceed five (5) years each, provided Watermaster shall  
13 report its intention to consider an extension of any such Agreement in minutes of  
14 its meeting held prior to its meeting when any such extension request shall be  
15 acted upon.  
16

17 (f) Maximum Storage. Such Agreements shall fix the maximum  
18 amount of Supplemental Water to be stored in the Basin at any point in time by  
19 a particular storing entity.  
20

21 (g) Watermaster to be Held Harmless. The storing entity of such  
22 Agreement shall save and hold harmless Watermaster, its officers, agents and  
23 employees from any and all costs, damages or liability resulting from said  
24 Agreement and shall provide Watermaster with the defense or costs of the defense  
25 of any action brought against Watermaster, its officers, agents or employees  
26 arising or alleged to arise by reason of such Agreement for storage of  
27 Supplemental Water in the Basin.  
28

1 (h) Reports to Watermaster. The storing entity shall quarterly report  
2 to Watermaster the amount of Supplemental Water which it spreads and withdraws  
3 each quarter under such Agreement. Such reports shall be due on the last day of  
4 the month next succeeding the end of the relevant quarter, i.e. April 30, July 31,  
5 October 31, and January 31. Such reports shall be cumulative and shall indicate  
6 the credit balance of the relevant quarter.  
7

8 (i) Court Approval of Cyclic Storage Agreements. Upon its approval  
9 of a Cyclic Storage Agreement, Watermaster shall Petition the Court for approval  
10 thereof and said Agreement shall become effective only upon such Court approval.

11 27. Responsible Agency from Whom Watermaster Shall Purchase Replacement  
12 Water.

13  
14 (a) Responsible Agencies. There are three Responsible Agencies within  
15 or partially within the Basin. Two of such Agencies, Upper San Gabriel Valley  
16 Municipal Water District (Upper District) and Three Valleys Municipal Water  
17 District (Three Valleys District) are member agencies of The Metropolitan Water  
18 District of Southern California (Metropolitan) and supply Watermaster with  
19 Replacement Water purchased from Metropolitan. The third Responsible Agency  
20 is San Gabriel Valley Municipal Water District (San Gabriel District) which has  
21 contracted with the State of California and has constructed facilities to deliver  
22 water from the State Water Project and, thus, can directly supply Watermaster  
23 with Replacement Water.  
24

25 (b) Water Used Within the Basin. For water used within the Basin, the  
26 Responsible Agency within whose boundaries is located the place of use of water  
27 Produced from the Basin will determine the Responsible Agency from whom  
28

1 Watermaster shall purchase Replacement Water.

2 (c) Water Exported from the Basin. Except for water Produced from  
3 the Basin and used within the City of Sierra Madre (for which San Gabriel District  
4 shall be the Responsible Agency), the place of such Production of water exported  
5 from the Basin shall determine the Responsible Agency from whom Watermaster  
6 shall purchase Replacement Water.  
7

8 (d) Computations of the Amount of Replacement Water to be Purchased  
9 from Responsible Agencies. In computing the amount of Replacement Water to  
10 be provided by a Responsible Agency, Watermaster shall:

11 (1) Determine the Replacement Water requirement of each Party  
12 to the Judgment and apportion such Replacement Water requirement as  
13 required in (b) and (c) above;

14 (2) Calculate the total Replacement Water requirement for each  
15 Responsible Agency as determined in (1) above;

16 (3) Tabulate Interagency Transfers of water rights as described  
17 in (e) (1) below;

18 (4) Calculate the Net Interagency Transfer adjustment as  
19 described in (e) (2) below;

20 (5) Determine the adjusted Replacement Water requirements,  
21 calculated for each Responsible Agency as required in (e) below; and

22 (6) Determine the effect of deferred Replacement Water  
23 requirements as calculated in (h) below.

24 (e) Net Interagency Transfer Adjustment and Replacement Water  
25 Requirement. Replacement Water requirements as heretofore calculated shall be  
26  
27  
28

1 modified by a "Net Interagency Transfer Adjustment." "Interagency Transfer"  
2 shall mean the aggregate amount of Production Right resulting from the transfer  
3 (by sale or lease) of all or a portion of a Pumper's Share of Operating Safe Yield,  
4 or a Base Annual Diversion Right, or the Diversion Component or Pumping  
5 Component of an Integrated Production Right for use within the boundaries of a  
6 Responsible Agency other than the Responsible Agency within which such water  
7 rights were developed and adjudicated.  
8

9 The annual Replacement Water requirement resulting from Net  
10 Interagency Transfers for each Responsible Agency shall be calculated as follows:

11 (1) Net Interagency Transfers shall be calculated for each  
12 Responsible Agency as the difference between such rights transferred for  
13 use outside or partially outside that Responsible Agency and such rights  
14 transferred for use within or partially within that Responsible Agency.  
15

16 (2) Tabulate the total Interagency Transfers of water rights,  
17 calculated for each of the Responsible Agencies in (1) above. The sum of  
18 said total Interagency Transfers for each of the three Responsible Agencies  
19 is that Responsible Agency's Net Interagency Transfer Adjustment. The  
20 total of such adjustments for all Responsible Agencies shall equal zero.  
21 The Responsible Agency(s) having a positive amount shall have this Net  
22 Interagency Transfer Adjustment added to the Replacement Water  
23 requirement computed for it in (d) (2) above. The Responsible Agency(s)  
24 having a negative amount shall have this Net Interagency Transfer  
25 Adjustment subtracted from the Replacement Water requirement calculated  
26 for it in (d) (2) above.  
27  
28

1 (f) Special Provisions.

2 (1) The Replacement Water requirement calculated for each of  
3 the Responsible Agencies in (e) (2) above cannot exceed the total quantity  
4 of Replacement Water obligation calculated for all Responsible Agencies,  
5 and/or,

6  
7 (2) If the Replacement Water requirement calculated in (e) (2)  
8 above results in a negative value, that negative value shall be adjusted to  
9 zero, as described in (h) below.

10 (g) Special Provisions Re Alhambra Exchange. An adjustment shall be  
11 made to San Gabriel District's calculated Replacement Water requirement, if  
12 necessary, to allow Upper District to deliver an amount of Replacement Water to  
13 the City of Alhambra equal to the quantity delivered through connection USG-5  
14 for the previous year, the year in which the Replacement Water requirement was  
15 incurred.  
16

17 (h) Adjustments to Calculated Replacement Water Requirements.  
18 Adjustments to Replacement Water requirements resulting from the calculations  
19 in (f) (2) or (g) above shall be apportioned as follows:  
20

21 (1) As between Upper District and Three Valleys District, the  
22 district with a negative value shall have added to it an amount sufficient  
23 to equal zero, that amount shall be subtracted from the Replacement Water  
24 requirement of the other Responsible Agency, but it shall not be reduced  
25 to less than zero. If a negative balance still exists, then it shall be  
26 subtracted from San Gabriel District.

27  
28 (2) If San Gabriel District's Replacement Water requirement is

1 less than zero, it shall be adjusted to zero by deducting equal amounts of  
2 San Gabriel District's adjustment from both Upper District and Three  
3 Valleys District.

4 (3) All adjustments shall be accumulated in a Deferred  
5 Replacement Water Requirement Account for each of the Responsible  
6 Agencies. In future years when deliveries of Replacement Water may be  
7 made by a Responsible Agency, up to the amount, or any portion of the  
8 amount, in the Deferred Replacement Water Requirement Account, such  
9 deliveries will be equally subtracted from the Replacement Water  
10 requirement of the Responsible Agency(s) from which it was derived in (1)  
11 and/or (2) above for that year so long as such deliveries shall not cause  
12 total deliveries of all Responsible Agencies to exceed the amounts  
13 provided for in paragraph (f) (1) and/or paragraph (f) (2) above. At the  
14 time that deliveries are made by a Responsible Agency from its Deferred  
15 Replacement Water Requirement Account, Watermaster shall pay to that  
16 Responsible Agency its price prevailing at that time for Replacement  
17 Water.  
18  
19  
20

21 (i) Advanced Delivery Account. Whenever the total quantity  
22 calculated in (e) (1) above, is less than that delivered to the City of Alhambra  
23 through USG-5 for the previous year, an accounting of the difference shall be  
24 maintained in an "Advanced Delivery Account" and such difference, or as much  
25 as possible thereof, shall be subtracted from the Replacement Water Requirement  
26 of Upper District in the next year when an obligation to deliver Replacement  
27 Water exists for Upper District.  
28

1           28.   Ground Water Quality Management. The Watermaster, Upper District,  
2 San Gabriel District, and San Gabriel Valley Water Association, through a Joint  
3 Resolution dated February-March 1989, affirmed their commitment to participate in a  
4 coordinated federal, state and local response to contamination of Ground Water supplies  
5 of the Basin for both the purpose of preventing additional contamination and the purpose  
6 of cleaning up and limiting the spread of existing contamination. The entities adopting  
7 that Joint Resolution designated and accepted Watermaster as the entity to coordinate  
8 local involvement in the efforts to preserve and restore the quality of Ground Water  
9 within the Basin. Watermaster sought and received additional powers from the Court to  
10 regulate extractions of water from the Basin for water quality control purposes, and this  
11 Section 28 is to implement the same. These efforts shall be that any New or Increased  
12 Extraction to meet water needs from the Basin shall include planned treatment in existing  
13 areas of High Level Degradation or Contamination. An important part of exercising these  
14 additional powers and coordinating federal, state and local responses to contamination of  
15 the Basin's water supplies, is the collection and compilation of essential data from  
16 Producers and the expeditious distribution of such data to the proper state and federal  
17 regulatory agencies involved in water quality matters in the Basin.

18  
19  
20           (a)   Watermaster Approvals. Each Producer shall, after the effective  
21 date of this amendment to these Rules and Regulations (June 28, 1991), apply to  
22 Watermaster, on forms provided by Watermaster, for a permit to do any of the  
23 following:  
24

- 25                   - Construct any well;  
26                   - Deepen any existing well;  
27                   - Modify the perforations of the casing of any existing well;  
28                   - Notwithstanding natural fluctuations in Basin water levels,  
                    physically increase or decrease the Effective Extraction  
                    Capacity of any existing well, including that which may occur

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- due to installation or modification of pipelines, booster pumps or other distribution system components, as of said effective date of these Rules and Regulations;
- Abandon any existing well; or
- Construct, relocate or abandon Ground Water Treatment Facilities.

Such application will be acted upon by Watermaster no later than at its first regular meeting following sixty (60) days after receipt of the complete application. If an emergency exists, Watermaster shall expedite its actions to the maximum extent practicable.

(b) Watermaster Directed Change in Water Production.

(1) Based on available data, Watermaster's Five-Year Plan, and/or Ground Water modeling, Watermaster will, for water quality protection purposes, direct any Producer to increase, decrease or cease Production from existing wells, initiate new well Production or deliver water to or accept water from another water system or direct a Producer to obtain water from another source in-lieu of Pumping from its own wells, or take other appropriate actions in compliance with an approved Watermaster plan by giving such Producer advanced written notice thereof, specifying a time certain for compliance.

(2) The increase in cost to a Producer resulting from a Watermaster directed change in water Production shall not be borne by the Producer, but will be reimbursed to the Producer by Watermaster through In-Lieu Water Assessments levied by Watermaster, unless such funding is made available from other sources such as federal, state or local governmental entities or by those found to be responsible for the contamination in the Basin which caused Watermaster to direct the change

1 in Production by the Producer.

2 (c) Producer Data, Initial Submittal. After June 28, 1991, Producers  
3 shall submit, within sixty (60) days of Watermaster's request, initial data in a form  
4 acceptable to Watermaster, to update and ensure the accuracy of the existing Basin  
5 database. The data shall include:

6 (1) Identification and location of all Active, Inactive or  
7 Abandoned Wells;

8 (2) Water quality data concerning organic compounds, nitrates and  
9 any other water quality parameters as specified by Watermaster, including  
10 all data from other sampling Producers may conduct in addition to  
11 governmental requirements;

12 (3) Available construction details of each well owned or operated  
13 by Producer, as well as all logs (driller's, electric, etc.);

14 (4) Depths or zones from which water is extracted from each  
15 well, if available; and

16 (5) A current map of the main water transmission system of  
17 Producer's distribution system showing the location and sizes of  
18 transmission mains and storage reservoirs, all interconnections with other  
19 systems and their sizes and capacities, and any other data pertinent to the  
20 transmission (but not distribution to customer's) of water through the  
21 Producer's system.

22 (d) Quarterly Reports. After the initial submittal of data per  
23 subparagraph (c) above, the following data shall be submitted by all Producers to  
24 Watermaster quarterly, on or before the last day of January, April, July and  
25  
26  
27  
28

1           October:

2                   (1) Chemical water quality data collected during the quarter and  
3                   provided to any state, federal or local public agency;

4                   (2) Data described under Section 28 (c) (3), (4) and (5) hereof  
5                   which supplement, amend or change the data previously submitted by a  
6                   Producer; and

7                   (3) All data from other sampling which Producers may conduct  
8                   in addition to governmental requirements.

9  
10           (e) Operating Principles. Any New or Increased Extraction by a  
11           Producer in the Basin to meet water supply needs shall have prior Watermaster  
12           approval, shall not contribute to contaminant migration, and shall include planned  
13           treatment in existing areas of High-level Degradation and Contamination. In  
14           giving such approval, Watermaster shall consider the cumulative effects of  
15           multiple actions by all Producers in the area of concern by using available  
16           information, the Five-Year Plan, and Ground Water modeling.

17  
18           (f) Emergency Exemptions. Where a Producer's water supply or water  
19           quality problem is so urgent that the viable option for maintaining an adequate  
20           short-term supply that meets drinking water standards involves an action in  
21           conflict with the operating principles outlined in Section 28 (e) hereof,  
22           Watermaster may approve a short-term action contingent upon the Applicant  
23           Producer concurrently submitting an acceptable long-term action plan with  
24           acceptable deadlines for implementation. In general, the long-term action plan  
25           must be approved prior to or concurrently with the short-term action.

26  
27           (g) Water Quality and Supply Plans. To assure that Pumping does not  
28

1 lead to further degradation of water quality in the Basin, a Five-Year Water  
2 Quality and Supply Plan must be prepared and updated annually by Watermaster,  
3 projecting water supply requirements and water quality conditions for each period  
4 of five (5) calendar years beginning November 1, 1991, and each November 1  
5 thereafter. This Plan will also include a water quality monitoring element to  
6 obtain supplemental information as needed to assist in projecting contamination  
7 levels. Watermaster will supply the Producers with projections of contaminant  
8 migration by June 1 of each year for the preparation of these Water Quality and  
9 Supply Plans.  
10

11 Each purveyor of potable water produced from the Basin shall  
12 submit the following information to Watermaster by July 31 of each year:  
13

14 (1) Projected quarterly water supply requirements for each of the  
15 following five calendar years and the proposed pumping rates, in gallons  
16 per minute, for each well;

17 (2) Identification of each Production well known to contain  
18 contaminants and the contaminant levels;

19 (3) Proposed methods for meeting the water supply requirements  
20 of the system if contaminant levels are, or are projected by Watermaster  
21 to become, greater than drinking water standards; and

22 (4) Any intended treatment facility.  
23

24 Watermaster shall analyze the information submitted by Producers and  
25 develop an overall draft Basin Water Quality and Supply Plan. A draft Plan will  
26 be submitted by Watermaster to the Los Angeles Regional Water Quality Control  
27 Board, and for public review and comment per Section 28 (i) hereof, by November  
28

1 1. Appropriate modifications resulting from comments received will be reflected  
2 in the final draft, and a staff report providing an explanation of decisions will be  
3 made available.

4 (h) Ground Water Treatment Facilities.

5 (1) Producers in the Basin shall notify Watermaster in advance at  
6 the initial stages of planning of their intent to construct any Facility to  
7 remove volatile organic compounds (VOCs) and/or nitrates from water  
8 Produced from the Basin. Such notice shall include the following  
9 information:  
10

- 11 - the intended location and a description of the Treatment  
12 Facility;
- 13 - the water production capacity;
- 14 - the rate of contaminant removal capacity;
- 15 - the expected concentration of all identified contaminants  
16 in the water to be treated;
- 17 - the expected concentration of all identified contaminants  
18 in the water after treatment;
- 19 - the intended disposition of all water to be treated;
- 20 - the expected initiation date and period of time over which  
21 the Treatment Facility will operate; and
- 22 - the expected capital and operating costs of the Treatment  
23 Facility.

24 (2) In addition, the Producer shall describe all necessary permits  
25 and/or all permits for which it has applied or has received from all  
26 regulatory agencies with regard to such Treatment Facility and shall supply  
27 to Watermaster copies of all environmental documents required under the  
28 California Environmental Quality Act and/or the National Environmental  
Protection Act. No construction of such Treatment Facilities shall be  
initiated without the prior written approval of Watermaster. Watermaster  
shall promptly examine each submittal for compatibility with available

1 information, the Five-Year Plan and the operating principles, and notify the  
2 Applicant of its findings and decision regarding such proposed Treatment  
3 Facility no later than at its first regular meeting following sixty (60) days  
4 after receipt of a complete submittal by the Producer. Watermaster will  
5 also report its determination to the Los Angeles Regional Water Quality  
6 Control Board.

7  
8 (3) All operators of Treatment Facilities shall report quarterly to  
9 Watermaster at least the following information:

- 10 - name or other designation of the Treatment Facility;  
11 - quantity of water treated during quarter;  
12 - quantity of each contaminant removed;  
13 - quality of water before treatment, at beginning and end of  
14 each quarter;  
15 - quality of water after treatment, at beginning and end of  
16 each quarter; and  
17 - operation and maintenance costs for each quarter.

18 (i) Decision Making Process, Hearings and Appeals.

19 (1) All Watermaster determinations relating to the control of  
20 Pumping for water quality purposes shall be based upon a staff  
21 recommendation and information and recommendations received from or  
22 furnished by affected Producers. Staff's recommendation shall result from  
23 staff's analysis of information presented by interested Parties, all available  
24 water quality data, Watermaster's Five-Year Plan, Ground Water modeling  
25 and other water quality trend analysis reports, and will be based on the  
26 operating principles set forth in these rules. Staff shall provide supporting  
27 data to document each recommendation that it makes to Watermaster.  
28 After consideration of the staff recommendation and public comment  
provided at the Watermaster meeting, Watermaster shall make a final

1 decision.

2 (2) Public hearings on Watermaster's draft annual Five-Year  
3 Water Quality and Supply Plan will be held following a thirty (30) day  
4 public review and comment period. A copy of such draft will be sent to  
5 all Parties to the Judgment as well as to all other interested Parties by  
6 November 1 of each year along with a notice of the date, time and place  
7 of the public hearing, to be scheduled not less than thirty (30) days after  
8 the mailing date of the draft Plan. A notice of public hearing will also be  
9 published in the San Gabriel Valley's key local newspaper(s) at the  
10 beginning of the public review period. Consideration of comments  
11 received is described in Section 28 (g) hereof.  
12

13 (3) Appeal of a Watermaster decision may be made to the  
14 Watermaster who shall notice and consider the same at a public hearing.  
15 Actions by the Watermaster are subject to review by the Court. Any Party  
16 may, by a regularly noticed motion, petition the Court for review of  
17 Watermaster's action or decision. Notice of such motion shall be served  
18 and filed within ninety (90) days after such Watermaster action or decision.  
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1 APPENDIX "A"

2 DEFINITIONS

3 (a) Base Annual Diversion Right -- The average annual quantity of water  
4 which a Diverter has the right to Divert for Direct Use.

5 (b) Direct Use -- Beneficial use of water other than for spreading or Ground  
6 Water recharge.

7 (c) Divert or Diverting -- To take waters of any surface stream within the  
8 Relevant Watershed.

9 (d) Diverter -- Any Party who Diverts.

10 (e) Elevation -- Feet above mean sea level.

11 (f) Fiscal Year -- The period July 1 through June 30, following.

12 (g) Ground Water -- Water beneath the surface of the ground and within the  
13 zone of saturation.

14 (h) Ground Water Basin -- An interconnected permeable geologic formation  
15 capable of storing a substantial Ground Water supply.

16 (i) Integrated Producer -- Any Party that is both a Pumper and a Diverter, and  
17 has elected to have its rights adjudicated under the optional formula provided in Section  
18 18 of the Amended Judgement.

19 (j) In-Lieu Water Cost -- The differential between a particular Producer's cost  
20 of Watermaster directed Produced, treated, blended, substituted or Supplemental Water  
21 delivered or substituted to, for, or taken by such Producer in-lieu of his cost of otherwise  
22 normally producing a like amount of Ground Water.

23 (k) Judgment -- Judgment entered in Los Angeles Superior Court Civil Action  
24 No. 924128, entitled "Upper San Gabriel Valley Municipal Water District v. City of  
25  
26  
27  
28

1 Alhambra, et al," as amended.

2 (l) Key Well -- Baldwin Park Key Well, being elsewhere designated as State  
3 Well No. 1S/10W-7R2, or Los Angeles County, Department of Public Works, Well No.  
4 3030-F. Said well has a ground surface elevation of 386.7.

5 (m) Long Beach Case -- Los Angeles Superior Court Case No. 722647, entitled  
6 "The Board of Water Commissioners of the City of Long Beach, et al, v. San Gabriel  
7 Valley Water Company, et al."

8  
9 (n) Main San Gabriel Basin or Basin -- The Ground Water Basin underlying  
10 the area shown as such on Exhibit "A" of the Judgment.

11 (o) Make-up Obligation -- The total cost of meeting the obligation of the Basin  
12 to the area at or below Whittier Narrows, pursuant to the Judgment in the Long Beach  
13 Case.

14  
15 (p) Minimal Producer -- Any Producer whose Production in any Fiscal Year  
16 does not exceed five (5) acre-feet.

17 (q) Natural Safe Yield -- The quantity of natural water supply which can be  
18 extracted annually from the Basin under conditions of the long-term average annual  
19 supply, net of the requirement to meet downstream rights as determined in the Long  
20 Beach Case (exclusive of Pumped export), and under cultural conditions as of a particular  
21 year.

22  
23 (r) Operating Safe Yield -- The quantity of water which Watermaster  
24 determines may be Pumped from the Basin in a particular Fiscal Year, free of the  
25 Replacement Water Assessment under the Physical Solution of the Judgment.

26 (s) Overdraft -- A condition wherein the total annual Production from the  
27 Basin exceeds the Natural Safe Yield thereof.  
28

1 (t) Overlying Rights -- The right to Produce water from the Basin for use on  
2 Overlying Lands, which rights are exercisable only on specifically defined Overlying  
3 Lands and which cannot be separately conveyed or transferred apart therefrom.

4 (u) Physical Solution -- The Court-decreed method of managing the waters of  
5 the Basin so as to achieve the maximum utilization of the Basin and its water supply,  
6 consistent with the rights declared in the Judgment.  
7

8 (v) Prescriptive Pumping Right -- The highest continuous extraction of water  
9 by a Pumper from the Basin for beneficial use in any five (5) consecutive years after  
10 commencement of Overdraft and prior to filing of the action, as to which there has been  
11 no cessation of use by that Pumper during any subsequent period of five (5) consecutive  
12 years prior to the filing of said action.

13 (w) Produce or Producing -- To Pump or Divert water from the Basin.

14 (x) Producer -- A Party who Produces water from the Basin.

15 (y) Production -- The annual quantity of water Produced from the Basin, stated  
16 in acre-feet.  
17

18 (z) Pump or Pumping -- To extract ground water from the Basin by Pumping  
19 or by any other method.  
20

21 (aa) Pumper -- A Party who Pumps water.

22 (bb) Pumper's Share -- A Pumper's right to a percentage of the entire Natural  
23 Safe Yield, Operating Safe Yield and appurtenant Ground Water storage of the Basin.

24 (cc) Reclaimed Water -- Water which, as a result of treatment of waste, is  
25 suitable for a direct beneficial use or a controlled use that would not otherwise occur.

26 (dd) Relevant Watershed -- That portion of the San Gabriel River Watershed  
27 tributary to Whittier Narrows which is shown as such on Exhibit "A" to the Judgment and  
28

1 the exterior boundaries of which are described in Exhibit "B" of the Judgment.

2 (ee) Replacement Water -- Water purchased by Watermaster to replace: (1)  
3 Production in excess of a Pumper's Share of Operating Safe Yield; (2) the consumptive  
4 use portion resulting from the exercise of an Overlying Right; and (3) Production in  
5 excess of a Diverter's right to Divert for Direct Use.

6 (ff) Responsible Agency -- The municipal water district which is the normal  
7 and appropriate source from whom Watermaster shall purchase Supplemental Water for  
8 replacement purposes under the Physical Solution of the Judgment, being one of the  
9 following:  
10

11 (1) Upper District -- Upper San Gabriel Valley Municipal Water  
12 District, a member public agency of The Metropolitan Water District of Southern  
13 California (MWD).  
14

15 (2) San Gabriel District -- San Gabriel Valley Municipal Water District,  
16 which has a direct contract with the State of California for State Project water.

17 (3) Three Valleys District -- Three Valleys Municipal Water District,  
18 a member public agency of MWD.

19 (gg) Stored Water -- Supplemental Water stored in the Basin pursuant to a  
20 Cyclic Storage Agreement with Watermaster as authorized by Section 34(n) of the  
21 Judgment herein.  
22

23 (hh) Supplemental Water -- Nontributary water imported through a Responsible  
24 Agency and Reclaimed Water.

25 (ii) Transporting Parties -- Any Party who has transported water from the  
26 Relevant Watershed or Basin to an area outside thereof within the Year immediately  
27 preceding the entry of Judgment, and any Party presently or hereafter having an interest  
28

1 in lands or having a service area outside the Basin or Relevant Watershed contiguous to  
2 lands in which it has an interest or a service area within the Basin or Relevant Watershed.  
3 Division by a road, highway, or easement shall not interrupt contiguity. Said term shall  
4 also include the City of Sierra Madre, or any Party supplying water thereto, so long as  
5 the corporate limits of said City are included within one of the Responsible Agencies.

6  
7 (jj) Water Level -- The measured Elevation of water in the Key Well, corrected  
8 for any temporary effects of mounding caused by replenishment or local depressions  
9 caused by Pumping.

10 (kk) Year -- A calendar year, unless the context clearly indicates a contrary  
11 meaning.

12 **The following are supplemental definitions relating to Section 28 of these rules**  
13 **and regulations.**

14  
15 (ll) New Extraction -- Any extraction from the Main San Gabriel Basin using  
16 a well or other Ground Water extraction facility that becomes active for the first time for  
17 water supply purposes on or after June 28, 1991.

18 (mm) Increased Extraction (Decreased) -- Any modification to an existing well  
19 or extraction facility that physically increases (or decreases) the Effective Extraction  
20 Capacity of that well or extraction facility. Such modifications may include: (1)  
21 changing the well depth, (2) modifying the perforation intervals, (3) modifying the pump  
22 and/or motor, (4) installing or modifying distribution pipelines, (5) installing or modifying  
23 booster pumps, and (6) installing or modifying other distribution system components.  
24 Normal maintenance work would be excluded.

25  
26 (nn) Effective Extraction Capacity -- The actual capacity of a well or extraction  
27 facility to extract Ground Water from the Basin using the pumping equipment and system  
28

1 appurtenances in good working order as they existed on June 28, 1991.

2 (oo) Treatment Facility -- Any facility that provides treatment for contaminated  
3 Ground Water in order to meet drinking water standards.

4 (pp) Planned Treatment -- A specific Treatment Facility with a designated  
5 source of Ground Water supply and schedule for development.

6 (qq) Active Well -- Any well used or that could be used without modifications  
7 to extract Ground Water.

8 (rr) Inactive Well -- Any well that is not in service at the time of filing of an  
9 application hereinunder.

10 (ss) Abandoned Well -- A well that has been abandoned in accordance with the  
11 provisions of state, county or local laws and regulations.

12 (tt) High-level Degradation and Contamination -- Ground Water containing  
13 contaminants in excess of the federal or state maximum contaminant level. Some areas  
14 of the Basin contain higher contaminant concentrations than others and Treatment  
15 Facilities shall be planned to extract Ground Water from the higher level areas of  
16 contamination in the Basin.  
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APPENDIX "B"

SUMMARY OF CRITICAL DATES AND ACTIONS FOR WATERMASTER

This summary of critical dates and actions for Watermaster is presented for the convenience of Watermaster members, the Parties and others in carrying out the provisions of the Court Judgment. It does not necessarily include all critical dates and actions under the Judgment.

SUMMARY OF CRITICAL DATES AND ACTIONS FOR WATERMASTER

1  
2 1. Watermaster members' terms of office.

3 January 1 - December 31.

4 2. Watermaster's first meeting in January.

5 (a) Election of Watermaster Chairman and Vice-Chairman (from Watermaster  
6 membership) and selection of Secretary, Treasurer and assistants (who may, but  
7 need not, be Watermaster members). Watermaster Rules and Regulations, Section  
8 6 (R/R 6)

9  
10 (b) Order Engineering Report for Preliminary Determination of Operating Safe  
11 Yield. (R/R 14(a))

12 3. January 31 - Quarterly Reports, as required by the Rules and Regulations, of  
13 Production (R/R 13), Cyclic Storage (R/R 26(h)) and data required by Section 28  
14 (d), due to Watermaster.

15 4. March - Receive San Gabriel River Watermaster Report.

16 5. Watermaster's first meeting in April.

17 Watermaster shall make a Preliminary Determination of the Operating Safe Yield  
18 of the Basin for the next five Fiscal Years and mail a copy thereof to all Parties  
19 at least ten (10) days prior to a hearing thereon and which said hearing shall  
20 commence at Watermaster's first meeting in May. (R/R 14(a))

21 6. April 30 - Quarterly Reports, as required by the Rules and Regulations, of  
22 Production (R/R 13), Cyclic Storage (R/R 26(h)) and data required by Section 28  
23 (d), due to Watermaster.

24 7. Watermaster's first meeting in May.

25  
26 (a) Hearing on Preliminary Determination for Watermaster to make Final  
27  
28

1 Determination of Operating Safe Yield. (R/R 14(b))

2 Within thirty (30) days of the Final Determination of the Operating Safe Yield a  
3 copy of the Final Report and Determination must be mailed to each Pumper and  
4 Integrated Producer, including a statement of their entitlements under such  
5 Determination. (R/R 14(c))

6 (b) Budget.

7 Adopt a proposed Administration Budget for the succeeding Fiscal Year and  
8 within fifteen (15) days mail a copy thereof together with a statement of the level  
9 of the Administration Assessment levied by Watermaster which will be collected  
10 for purposes of raising the necessary funds for said budget. (R/R 18(a))

11 (c) Assessments.

12 In addition to the Administration Assessment, Watermaster shall levy the  
13 Replacement Water Assessment, Make-up Obligation Assessment and the In-lieu  
14 Water Assessments, if any. (R/R 19)

- 15
- 16
- 17 8. June 1 - Watermaster to supply Producers with projections of contaminant  
18 migration by June 1. (R/R 28(g))
- 19
- 20 9. July - Authorize preparation of Annual Watermaster Report. Receive tentative  
21 budget from San Gabriel River Watermaster.
- 22 10. July 31 - Quarterly Reports, as required by the Rules and Regulations, of  
23 Production (R/R 13), Cyclic Storage (R/R 26(h)) and data required by Section 28  
24 (d), due to Watermaster. Producers of potable water from the Basin must submit  
25 to Watermaster the data required by Section 28(g).
- 26
- 27 11. August 15 - On or before this date Watermaster must give written notice of all  
28 applicable Assessments to all Parties. (R/R 19)

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- 12. September 20 - All Assessments payable to Watermaster. (R/R 19(a))
  - 13. September 30 - Must pay Upper Area share of San Gabriel River Watermaster budget by this date.
  - 14. October 1 - Mail Notice of Nomination Election of Producer representatives to be held at Watermaster's November meeting. (R/R 9(a))
  - 15. October 31 - Quarterly Reports, as required by the Rules and Regulations, of Production (R/R 13), Cyclic Storage (R/R 26(h)) and data required by Section 28 (d), due to Watermaster.
  - 16. November
    - (a) Watermaster Annual Report filed with the Court and copies mailed to each Party by November 1. (R/R 24)
    - (b) Draft Annual Five-Year Water Quality and Supply Plan under Section 28 (g) to be filed with the Los Angeles Regional Quality Control Board and circulated for public review and comment by November 1.
    - (c) Prior to Watermaster's meeting in November, nomination of Public Representatives to Watermaster by Upper District and San Gabriel District.
    - (d) Watermaster's meeting in November--election of six Producer Representatives for nomination to Watermaster. (R/R 9(b)) Petition Court for confirmation of nominees and give notice of hearing on Petition to all Parties.
- Within ninety (90) days of a vacancy on Watermaster, it shall be filled by nomination by Upper District or San Gabriel District if for a Public Representative and by a special election at a Watermaster meeting for a Producer Representative, after notice thereof to all Parties, and Watermaster Petition (and notice thereof to all parties) for Court confirmation of nominee. (R/R 10)

**PERMANENT TRANSFER OF WATER RIGHTS - PRESCRIPTIVE PUMPING RIGHT**

For a valuable consideration, receipt of which is hereby acknowledged, \_\_\_\_\_, ("Seller") does hereby assign and transfer in perpetuity to \_\_\_\_\_, ("Buyer") all rights to the quantity of \_\_\_\_\_ acre-feet of the "Prescriptive Pumping Right" and the appropriate % of "Pumper's Share" adjudicated to Seller or his predecessor in the Judgement in the case of "Upper San Gabriel Valley Municipal Water District, v. City of Alhambra, et al," Los Angeles Superior Court No. 924128, together with all the attendant rights, powers and privileges pertaining thereto.

(Check appropriate provision)

This transfer does [ ] does not [ ] include \_\_\_\_\_ acre-feet of "carry-over of unused rights" associated with said transferred rights and in existence on the date hereof.

DATED: \_\_\_\_\_

BUYER

SELLER

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Signature)

(Signature)

Name of Designee (of Buyer) to receive service of Processes & Notices:

Name of Designee (of Seller) to receive service of Processes & Notices:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Address

Address

Telephone No.: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

To be executed by both Buyer and Seller and, if separately requested by Watermaster, be accompanied by a map of the service area where the water was used by Seller and a map of the service area where the water is intended to be used by the Buyer.

(Have the appropriate individual(s) or corporate attached acknowledgments completed by both Buyer and Seller as part of the transfer)

A TRUE COPY HEREOF MUST BE FILED WITH WATERMASTER WITHIN 15 DAYS OF EXECUTION.

(To be accompanied by completed Exhibit "E" if Buyer is not a party to the Judgment)

EXHIBIT "A"

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_, before me, the undersigned Notary Public, personally appeared

\_\_\_\_\_ known to me  
\_\_\_\_\_ proved to me on the basis of satisfactory evidence to be the person(s) who executed the within Instrument as

\_\_\_\_\_ or on behalf of the Corporation therein named and acknowledged to me that the Corporation executed it.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

\_\_\_\_\_  
Name (Typed or Printed)  
Notary Public in and for said  
County and State

(SEAL)

INDIVIDUAL(S) ACKNOWLEDGMENT

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_ before me, the undersigned Notary Public, personally appeared

\_\_\_\_\_ known to me  
\_\_\_\_\_ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) \_\_\_\_\_ subscribed to the within instrument and acknowledged to me that \_\_\_\_\_ executed the same.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

\_\_\_\_\_  
Name (Typed or Printed)  
Notary Public in and for said  
County and State

(SEAL)

PERMANENT TRANSFER OF WATER RIGHTS - BASE ANNUAL DIVERSION RIGHT

For a valuable consideration, receipt of which is hereby acknowledged, \_\_\_\_\_, ("Seller") does hereby assign and transfer in perpetuity to \_\_\_\_\_, ("Buyer") all rights to the quantity of \_\_\_\_\_ acre-feet of the "Base Annual Diversion Right" adjudicated to Seller or his predecessor in the Judgement in the case of "Upper San Gabriel Valley Municipal Water District, v. City of Alhambra, et al.", Los Angeles Superior Court No. 924128, together with all the attendant rights, powers and privileges pertaining thereto.

DATED: \_\_\_\_\_

BUYER

SELLER

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Signature)

(Signature)

Name of Designee (of Buyer) to receive service of Processes & Notices:

Name of Designee (of Seller) to receive service of Processes & Notices:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Address

Address

Telephone No.: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

To be executed by both Buyer and Seller and, if separately requested by Watermaster, be accompanied by a map of the service area where the water was used by Seller and a map of the service area where the water is intended to be used by the Buyer.

(Have the appropriate individual(s) or corporate attached acknowledgments completed by both Buyer and Seller as part of the transfer)

A TRUE COPY HEREOF MUST BE FILED WITH WATERMASTER WITHIN 15 DAYS OF EXECUTION.

(To be accompanied by completed Exhibit "E" if Buyer is not a party to the Judgment)

EXHIBIT "B"

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES) <sup>ss.</sup>

On this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_, before me, the undersigned Notary Public, personally appeared

\_\_\_\_\_ known to me  
\_\_\_\_\_ proved to me on the basis of satisfactory evidence to be the person(s) who executed the within Instrument as

\_\_\_\_\_ or on behalf of the Corporation therein named and acknowledged to me that the Corporation executed it.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

\_\_\_\_\_  
Name (Typed or Printed)  
Notary Public in and for said  
County and State

(SEAL)

INDIVIDUAL(s) ACKNOWLEDGMENT

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES) <sup>ss.</sup>

On this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_ before me, the undersigned Notary Public, personally appeared

\_\_\_\_\_ known to me  
\_\_\_\_\_ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) \_\_\_\_\_ subscribed to the within instrument and acknowledged to me that \_\_\_\_\_ executed the same.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

\_\_\_\_\_  
Name (Typed or Printed)  
Notary Public in and for said  
County and State

(SEAL)

**PERMANENT TRANSFER OF WATER RIGHTS - INTEGRATED PRODUCTION RIGHT**

For a valuable consideration, receipt of which is hereby acknowledged, \_\_\_\_\_, ("Seller") does hereby assign and transfer in perpetuity to \_\_\_\_\_, ("Buyer") all rights to the quantity of \_\_\_\_\_ acre-feet of the "Prescriptive Pumping Component" and the appropriate % of "Pumper's Share" together with \_\_\_\_\_ acre-feet of "Diversion Component" adjudicated to Seller or his predecessor in the Judgment in the case of Upper San Gabriel Valley Municipal Water District, v. City of Alhambra, et al., Los Angeles Superior Court No. 924128, together with all the attendant rights, powers and privileges pertaining thereto.

(Check appropriate provision)

This transfer does  does not  include \_\_\_\_\_ acre-feet of "carry-over of unused rights" associated with said transferred rights and in existence on the date hereof.

DATED: \_\_\_\_\_

BUYER

SELLER

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Signature)

(Signature)

Name of Designee (of Buyer) to receive service of Processes & Notices:

Name of Designee (of Seller) to receive service of Processes & Notices:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Address

Address

Telephone No.: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

To be executed by both Buyer and Seller and, if separately requested by Watermaster, be accompanied by a map of the service area where the water was used by Seller and a map of the service area where the water is intended to be used by the Buyer.

(Have the appropriate individual(s) or corporate attached acknowledgments completed by both Buyer and Seller as part of the transfer)

**A TRUE COPY HEREOF MUST BE FILED WITH WATERMASTER WITHIN 15 DAYS OF EXECUTION.**

(To be accompanied by completed Exhibit "E" if Buyer is not a party to the Judgment)

EXHIBIT "C"

CORPORATE ACKNOWLEDGME

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES)ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_, before me, the undersigned Notary Public, personally appeared

\_\_\_\_\_ known to me  
\_\_\_\_\_ proved to me on the basis of satisfactory evidence to be the person(s) who executed the within Instrument as

\_\_\_\_\_ or on behalf of the Corporation therein named and acknowledged to me that the Corporation executed it.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

\_\_\_\_\_  
Name (Typed or Printed)  
Notary Public in and for said  
County and State

(SEAL)

INDIVIDUAL(S) ACKNOWLEDGMENT

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES)ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_ before me, the undersigned Notary Public, personally appeared

\_\_\_\_\_ known to me  
\_\_\_\_\_ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) \_\_\_\_\_ subscribed to the within instrument and acknowledged to me that \_\_\_\_\_ executed the same.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

\_\_\_\_\_  
Name (Typed or Printed)  
Notary Public in and for said  
County and State

(SEAL)

TEMPORARY ASSIGNMENT OR LEASE OF WATER RIGHT

For a valuable consideration, receipt of which is hereby acknowledged, \_\_\_\_\_,

("Assignor") does hereby assign and transfer to \_\_\_\_\_, ("Assignee") commencing on \_\_\_\_\_ and terminating on \_\_\_\_\_, the following water right(s):

(Check the following appropriate category)

- |  |   |
|--|---|
| <input type="checkbox"/> <u>Production Right</u> _____ AF<br><input type="checkbox"/> <u>Prescriptive Pumping Right</u> _____ AF<br><input type="checkbox"/> <u>Base Annual Diversion Right</u> _____ AF | <input type="checkbox"/> <u>Integrated Production Right</u> (consisting of _____ acre-feet of "Prescriptive Pumping Component" and _____ acre-feet of "Diversion Component")<br><input type="checkbox"/> <u>Carry-over Right</u> _____ AF |
|--|---|

adjudicated to Assignor or his predecessor in the Judgment in the case of "Upper San Gabriel Valley Municipal Water District v. City of Alhambra, et al." Los Angeles Superior Court No. 924128.

Said assignment is made upon condition that:

- (1) Assignee shall exercise said right on behalf of Assignor for the period described hereinabove and the first water produced by Assignee from the Relevant Watershed of the Main San Gabriel Basin after the date hereof shall be that produced hereunder;
- (2) Assignee shall put all waters utilized pursuant to said transfer to reasonable beneficial use; and
- (3) Assignee shall pay all Watermaster assessments on account of the water production hereby assigned or leased.

DATED: \_\_\_\_\_

ASSIGNEE

ASSIGNOR

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(Signature)  
Name of Designee (of Assignee) to receive service of Processes & Notices:

Signature  
Name of Designee (of Assignor) to receive service of Processes & Notices:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Address  
Telephone No. of Designee: \_\_\_\_\_

Address  
Telephone No. of Designee: \_\_\_\_\_

To be executed by both Assignee and Assignor and, if separately requested by Watermaster, be accompanied by a map of the service area where the water was used by Assignor and a map of the service area where the water is intended to be used by the Assignee.

(Have the appropriate individual(s) or corporate attached acknowledgments completed as part of the temporary transfer)

A TRUE COPY HEREOF MUST BE FILED WITH WATERMASTER WITHIN 15 DAYS OF EXECUTION.  
(To be accompanied by completed Exhibit "E" if Assignee is not a party to the Judgment)

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES) <sup>ss.</sup>

On this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_, before me, the undersigned Notary Public, personally appeared

\_\_\_\_\_ known to me  
\_\_\_\_\_ proved to me on the basis of satisfactory evidence to be the person(s) who executed the within Instrument as

\_\_\_\_\_ or on behalf of the Corporation therein named and acknowledged to me that the Corporation executed it.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

\_\_\_\_\_  
Name (Typed or Printed)  
Notary Public in and for said  
County and State

—(SEAL)

INDIVIDUAL(s) ACKNOWLEDGMENT

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES) <sup>ss.</sup>

On this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_ before me, the undersigned Notary Public, personally appeared

\_\_\_\_\_ known to me  
\_\_\_\_\_ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) \_\_\_\_\_ subscribed to the within instrument and acknowledged to me that \_\_\_\_\_ executed the same.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

\_\_\_\_\_  
Name (Typed or Printed)  
Notary Public in and for said  
County and State

(SEAL)

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Attorney for Watermaster

SUPERIOR COURT OF THE STATE OF CALIFORNIA  
FOR THE COUNTY OF LOS ANGELES

UPPER SAN GABRIEL VALLEY )  
MUNICIPAL WATER DISTRICT, )  
 )  
Plaintiff, )  
v. )  
 )  
CITY OF ALHAMBRA, ET AL., )  
 )  
Defendants. )

NO. 924128  
STIPULATION RE INTERVENTION  
AFTER JUDGMENT  
OF \_\_\_\_\_  
as Defendant(s)

IT IS HEREBY STIPULATED by and between the Main San Gabriel Basin Watermaster for and on behalf of all parties to the instant action (pursuant to Section 57 of the amended Judgment) and \_\_\_\_\_ the proposed Intervenor(s) herein, that said proposed Intervenor(s) may intervene in the instant action and become entitled to all of the benefits and bound by all of the burdens of the Judgment herein.

The Court will consider the attached proposed Order confirming said Intervention at \_\_\_\_\_ o'clock \_\_\_ M on \_\_\_\_\_ 199\_\_, in Department \_\_\_\_\_ located at \_\_\_\_\_

Watermaster shall give at least 30 days notice to the parties herein of said hearing.

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DATED: \_\_\_\_\_

Watermaster

By \_\_\_\_\_  
Chairman

Attest:

\_\_\_\_\_  
Secretary

DATED: \_\_\_\_\_

Intervenor(s)

\_\_\_\_\_

By \_\_\_\_\_

By \_\_\_\_\_

Name of Intervenor's Designee:

\_\_\_\_\_

Address of Designee:

\_\_\_\_\_

\_\_\_\_\_

Telephone Number of Designee:

\_\_\_\_\_

Exhibit "E"

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SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF LOS ANGELES

UPPER SAN GABRIEL VALLEY )  
MUNICIPAL WATER DISTRICT, )  
Plaintiff, )

NO. 924128  
DESIGNEE TO RECEIVE FUTURE NOTICES  
FOR AND ON BEHALF OF DEFENDANT(S)

v. )

CITY OF ALHAMBRA, ET AL., )  
Defendants. )  
\_\_\_\_\_ )

Defendant(s) \_\_\_\_\_ hereby

designate(s): \_\_\_\_\_ whose address is:

\_\_\_\_\_ and whose telephone number is \_\_\_\_\_ as said defendant's

Designee to receive service of all future notices, determinations, requests, demands, objections, reports and other papers and processes to be served upon said defendant(s) or delivered to said defendant(s) herein.

A copy hereof has been served upon the Watermaster herein, by mail, on \_\_\_\_\_, 199\_\_.

Executed under penalties of perjury at \_\_\_\_\_ California, this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_.

Exhibit "F"

**NOTICE OF TRANSFER OF OVERLYING RIGHTS  
WITH PROPERTY TO WHICH THEY ARE APPURTENANT**

On \_\_\_\_\_, 19\_\_\_\_, the undersigned (or his predecessor),  
adjudged Overlying Rights on the property described in Exhibit 1 attached hereto and  
by this inference incorporated herein, in the case of "UPPER SAN GABRIEL VALLEY  
MUNICIPAL WATER DISTRICT, v. CITY OF ALHAMBRA, ET AL," Los Angeles  
Superior Court No. 924128, transferred said property and said Overlying Rights  
appurtenant thereto to \_\_\_\_\_,  
whose address is \_\_\_\_\_, and  
whose telephone number is \_\_\_\_\_.

That said transferee hereby names \_\_\_\_\_  
whose address is \_\_\_\_\_  
and whose telephone number is \_\_\_\_\_ as his/her Designee to  
receive all future notices and processes in said action.

DATED \_\_\_\_\_

BUYER

SELLER

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To be executed by both Buyer and Seller and, if separately requested by Watermaster,  
be accompanied by a map of the service area where the water was used by Seller and  
a map of the service area where the water is intended to be used by Buyer.

(Have the appropriate individual(s) or corporate attached acknowledgements completed  
as part of the transfer, and include Exhibit 1)

A TRUE COPY HEREOF MUST BE FILED WITH WATERMASTER WITHIN 15 DAYS  
OF EXECUTION

(To be accompanied by completed Exhibit "E" if Buyer is not a party to the Judgment)

Exhibit "G"

CORPORATE ACKNOWLEDGMENT

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES) <sup>ss.</sup>

On this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_, before me, the undersigned Notary Public, personally appeared

\_\_\_\_\_ known to me  
\_\_\_\_\_ proved to me on the basis of satisfactory evidence to be the person(s) who executed the within Instrument as

\_\_\_\_\_ or on behalf of the Corporation therein named and acknowledged to me that the Corporation executed it.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

\_\_\_\_\_  
Name (Typed or Printed)  
Notary Public in and for said  
County and State

(SEAL)

INDIVIDUAL(S) ACKNOWLEDGMENT

STATE OF CALIFORNIA )  
COUNTY OF LOS ANGELES) <sup>ss.</sup>

On this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_ before me, the undersigned Notary Public, personally appeared

\_\_\_\_\_ known to me  
\_\_\_\_\_ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) \_\_\_\_\_ subscribed to the within instrument and acknowledged to me that \_\_\_\_\_ executed the same.

WITNESS my hand and official seal.

Signature \_\_\_\_\_

\_\_\_\_\_  
Name (Typed or Printed)  
Notary Public in and for said  
County and State

(SEAL)

# MAIN SAN GABRIEL BASIN WATERMASTER

SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

(State Well Number)
(Recordation Number)
(Owner's Designation) (To Be Completed by Watermaster)

## APPLICATION TO DRILL WATER WELL

**(1) APPLICANT:**

Name \_\_\_\_\_  
Address \_\_\_\_\_

**(2) LOCATION OF PROPOSED WELL:**

Well Address: \_\_\_\_\_  
Township, Range, and Section \_\_\_\_\_  
Thomas Brothers Guide (Please indicate year, page number and  
coordinates.) \_\_\_\_\_

Assessors Parcel No. \_\_\_\_\_

(Please attach copy of a map or sketch showing well location  
relative to streets or other major landmarks.) \_\_\_\_\_

**(3) NAME OF WELL DRILLING CONTRACTOR:** \_\_\_\_\_

**(4) PROPOSED USE:**

Municipal  Irrigation   
Domestic  Industrial   
Water Quality Cleanup   
Other

**(5) DRILLING EQUIPMENT:**

Rotary   
Cable   
Other

**(6) PROPOSED WELL CHARACTERISTICS:**

A. Casing Installed:

STEEL  PLASTIC   
OTHER

Gravel Packed:

Yes  No  Size \_\_\_\_\_

From		To	Gage or Wall Diam.	Diameter of Bore	Packed	
ft.	ft.	ft.			ft.	ft.

Size of shoe or well ring: \_\_\_\_\_

Describe joint \_\_\_\_\_

B. Perforations or Screen:

Type of perforation or size of screen \_\_\_\_\_

From ft.	To ft.	Perf. per row	Rows per ft.	Slot Size

C. Construction:

Will a surface sanitary seal be provided? Yes  No

To what depth? \_\_\_\_\_ ft.

Is any strata anticipated to be sealed against pollution?

Yes  No

If yes, note anticipated depth of strata

from \_\_\_\_\_ ft to \_\_\_\_\_ ft

from \_\_\_\_\_ ft to \_\_\_\_\_ ft

Proposed method of sealing \_\_\_\_\_

**(7) WELL TESTS:**

Will a pump test be made? Yes  No  If yes by whom? \_\_\_\_\_

Anticipated Well Yield \_\_\_\_\_

Will a chemical analysis be made? Yes  No

Will an electric log be made of well? Yes  No

(If yes, file copy with Watermaster upon well completion)

**(8) PROPOSED PUMPING EQUIPMENT:**

(A) Pump

Electric  Natural Gas

Propane  Diesel

Other

(B) Make \_\_\_\_\_

(C) Pump Size (hp) \_\_\_\_\_ (gpm) \_\_\_\_\_

(D) Design Efficiency \_\_\_\_\_

**(9) PROXIMITY TO POTENTIAL SOURCES OF CONTAMINATION:**

(A) Distance to nearest sewer line or septic tank \_\_\_\_\_ (ft)

(B) Wells (Please provide distance, direction and name of nearest  
upgradient well(s) with volatile organic chemical or nitrate levels  
above a maximum contaminant level, if known.) \_\_\_\_\_

(10) Please provide copy of County of Los Angeles permits and  
State Department of Water Resources Water Well Driller  
Reports and any other permits for construction of a new well  
upon completion of proposed well.

(11) Please provide Watermaster with copies of all feasibility  
studies, alternative water supply sources, water quality studies  
or other reports which validate the Applicant's need to drill a  
new well. Applicant must provide supporting data to show  
compliance with the requirements of Section 28 with particular  
reference to Section 28(e) of Watermaster's Rules and  
Regulations.

I hereby agree to comply with all regulations of the Main San  
Gabriel Basin Watermaster pertaining to well construction,  
operation, repair, modification, destruction and inactivation.  
The applicant will furnish the Watermaster a complete well log  
upon completion of well construction.

Submitted for Applicant by: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date Received by Watermaster: \_\_\_\_\_

Watermaster Action:

Approved  Denied

Date of Action: \_\_\_\_\_

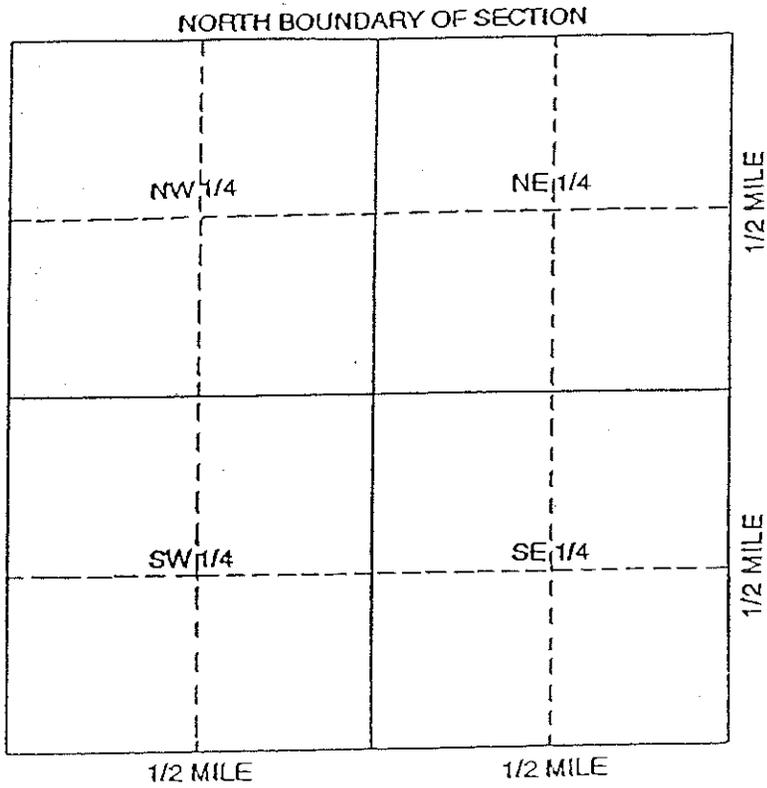
Permit Number: \_\_\_\_\_

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

(Name)

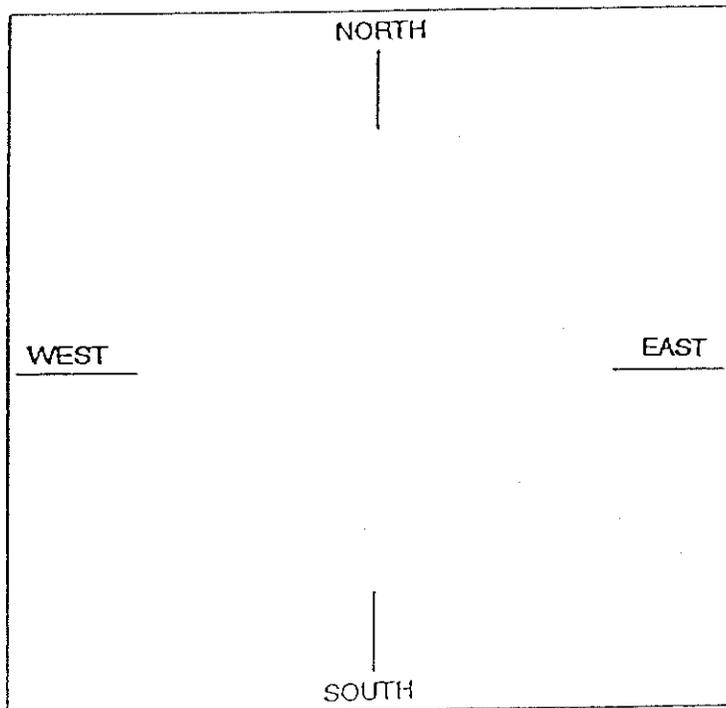
(Title)

# WELL LOCATION SKETCH



Township \_\_\_\_\_ N/S  
 Range \_\_\_\_\_ E/W  
 Section No. \_\_\_\_\_

A. Location of well in sectionized areas.  
 Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized.  
 Sketch roads, railroads, streams, or other features as necessary.  
 Indicate distances.

APPLICATION TO MODIFY EXISTING WATER WELL

(1) APPLICANT:

Name \_\_\_\_\_  
Address \_\_\_\_\_

(2) LOCATION OF WELL:

Well Address: \_\_\_\_\_  
Township, Range, and Section \_\_\_\_\_  
Thomas Brothers Guide (Please indicate year, page number and coordinates.) \_\_\_\_\_

Assessor's Parcel No. \_\_\_\_\_  
(Please attach copy of a map or sketch showing well location relative to streets or other major landmarks.) \_\_\_\_\_

(3) NAME OF WELL DRILLING CONTRACTOR: \_\_\_\_\_

(4) TYPE OF WORK (check):

Deepening  Modify Perforations  Increase Yield   
Reconditioning  Other

(5) PROPOSED USE (check):

Municipal  Irrigation   
Domestic  Industrial   
Water Quality Cleanup   
Other

(6) DRILLING EQUIPMENT:

Rotary   
Cable   
Other

(7A) CASING INSTALLED (existing):

STEEL  PLASTIC   
OTHER

Gravel Packed:

Yes  No  Size \_\_\_\_\_

From ft.	To ft.	Diam. ft.	Gage or Wall	Diameter of Bore	Packed	
					From ft.	To ft.

Size of shoe or well ring: \_\_\_\_\_

Describe joint \_\_\_\_\_

(7B) CASING INSTALLED (proposed):

STEEL  PLASTIC   
OTHER

Gravel Packed:

Yes  No  Size \_\_\_\_\_

From ft.	To ft.	Diam. ft.	Gage or Wall	Diameter of Bore	Packed	
					From ft.	To ft.

Size of shoe or well ring: \_\_\_\_\_

Describe joint \_\_\_\_\_

(8A) PERFORATIONS OR SCREEN (existing):

Type of perforation or size of screen \_\_\_\_\_

From ft.	To ft.	Perf. per row	Rows per ft.	Slot Size

(8B) PERFORATIONS OR SCREEN (proposed):

Type of perforation or size of screen \_\_\_\_\_

From ft.	To ft.	Perf. per row	Rows per ft.	Slot Size

(9A) EXISTING CONSTRUCTION:

Was a surface sanitary seal provided? Yes  No   
To what depth? \_\_\_\_\_ ft.

Were any strata sealed against pollution? Yes  No   
If yes, note depth of strata

from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Method of sealing \_\_\_\_\_

(9B) PROPOSED CONSTRUCTION:

Will a surface sanitary seal be provided? Yes  No   
To what depth? \_\_\_\_\_ ft.

Were any strata sealed against pollution? Yes  No   
If yes, note depth of strata

from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Method of sealing \_\_\_\_\_

(10) WELL TESTS:

Was pump test made? Yes  No  (If yes, attach most recent copy)

\_\_\_\_\_ gal. min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Temperature of water \_\_\_\_\_

Was a chemical analysis made? Yes  No

Was electric log made of well? Yes  No

(If yes, attach most recent copy)

(11) WELL LOG:

Total depth \_\_\_\_\_ ft. Depth of completed well \_\_\_\_\_ ft.

Formation: Describe by color, character, size of material and structure \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

(Please attach copy of existing well log. If well log is not available, describe well lithology in space provided or on attached page.)

(12) HISTORIC WELL MODIFICATIONS:

(On an attached page, please provide a chronology of all historic well modifications, which may have affected well yield or water quality.)

(13A) EXISTING WELL PUMP DATA:

A. Pump Type:

Electric  Natural Gas  Other   
Diesel  Propane

B. Pump Performance

Horsepower \_\_\_\_\_ GPM \_\_\_\_\_

Efficiency \_\_\_\_\_

(13B) PROPOSED WELL PUMP DATA:

A. Pump Type:

Electric  Natural Gas  Other   
Diesel  Propane

B. Pump Performance

Horsepower \_\_\_\_\_ GPM \_\_\_\_\_

Efficiency \_\_\_\_\_

(14) Please provide copy of County of Los Angeles permits and State Department of Water Resources Water Well Drillers Report and any other permits for modification of an existing well upon completion of modification of well.

(15) Please provide Watermaster with copies of all feasibility studies, alternative water supply sources, water quality studies or other reports which validate the Applicant's need to modify this well. Applicant must provide supporting data to show compliance with the requirements of Section 28 with particular reference to Section 28(e) of Watermaster's Rules and Regulations.

I hereby agree to comply with all regulations of the Main San Gabriel Basin Watermaster pertaining to well construction, operation, repair, modification, destruction and inactivation. The Applicant will furnish the Watermaster a complete well log upon completion of well modification.

Submitted for Applicant by: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date Received by Watermaster: \_\_\_\_\_

Watermaster Action:

Approved  Denied

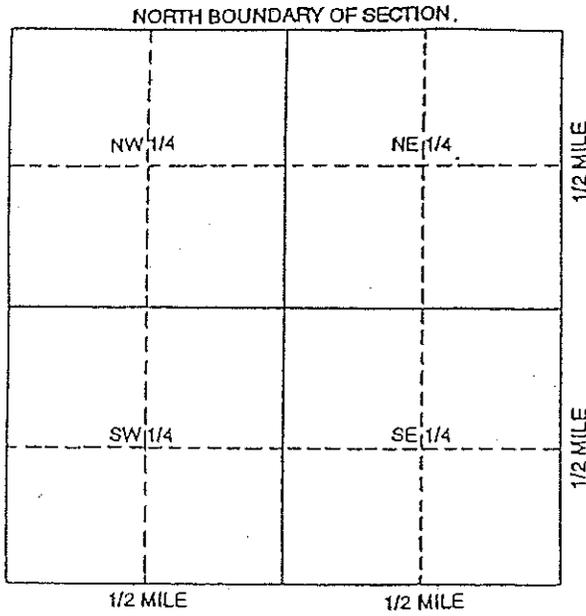
Date of Action: \_\_\_\_\_

Permit Number: \_\_\_\_\_

By: \_\_\_\_\_  
(Name)

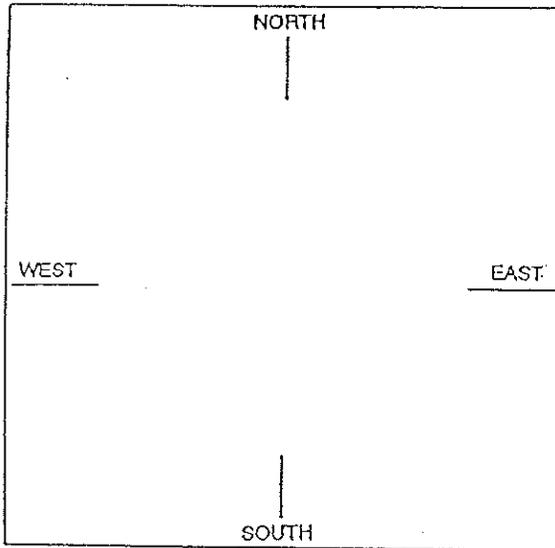
(Title)

# WELL LOCATION SKETCH



Township \_\_\_\_\_ N/S  
 Range \_\_\_\_\_ E/W  
 Section No. \_\_\_\_\_

A. Location of well in sectionized areas.  
 Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized.  
 Sketch roads, railroads, streams, or other features as necessary.  
 Indicate distances.

# MAIN SAN GABRIEL BASIN WATERMASTER

SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

(State Well Number)

(Recording Number)

(Owner's Designation)

## APPLICATION TO DESTROY WATER WELL

**(1) APPLICANT:**

Name \_\_\_\_\_  
 Address \_\_\_\_\_

**(2) LOCATION OF WELL:**

Well Address: \_\_\_\_\_  
 Township, Range, and Section \_\_\_\_\_  
 Thomas Brothers Guide (Please indicate year, page number and  
 coordinates.) \_\_\_\_\_

Assessor's Parcel No. \_\_\_\_\_  
 (Please attach copy of a map or sketch showing well location  
 relative to streets or other major landmarks.) \_\_\_\_\_

**(3) NAME OF WELL DRILLING CONTRACTOR:** \_\_\_\_\_

**(4) PURPOSE FOR DESTROYING WELL**

Water Quality  Physical   
 Other  \_\_\_\_\_

**(5) CURRENT USE:**

Municipal  Irrigation   
 Domestic  Industrial   
 Water Quality Cleanup   
 Other  \_\_\_\_\_

**(6) EXISTING CASING INSTALLED:**

STEEL  PLASTIC  Gravel Packed:  
 OTHER  Yes  No  Size \_\_\_\_\_

From ft.	To ft.	Diam. ft.	Gage or Wall	Diameter of Bore	Packed	
					From ft.	To ft.

Size of shoe or well ring: \_\_\_\_\_

Describe joint \_\_\_\_\_

**(7) EXISTING PERFORATIONS OR SCREEN:**

Type of perforation or size of screen \_\_\_\_\_

From ft.	To ft.	Perf. per row	Rows per ft.	Slot Size

**(8) CONSTRUCTION:**

Was a surface sanitary seal provided? Yes  No   
 To what depth? \_\_\_\_\_ ft.  
 Were any strata sealed against pollution? Yes  No   
 If yes, note depth of strata  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Method of sealing \_\_\_\_\_

**(9) WELL LOG: (Please provide a copy of well log.)**

Total depth \_\_\_\_\_ ft. Depth of completed well \_\_\_\_\_ ft.  
 Formation: Describe by color, character, size of material and  
 structure if well log cannot be provided.  
 \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(10) METHOD OF DESTROYING:** (Please provide an explanation of how the well is to be destroyed including drawings showing the proposed method of destroying. Please provide copy of County of Los Angeles permits and State Department of Water Resources Water Well Drillers reports and any other permits for destruction of well following destruction of the well.)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I hereby agree to comply with all regulations of the Main San Gabriel Basin Watermaster pertaining to well construction, operation, repair, modification, destruction and inactivation. The Applicant will notify the Watermaster upon completion of well destruction.

Submitted for Applicant by: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date Received by Watermaster: \_\_\_\_\_

Watermaster Action:

Approved  Denied

Date of Action: \_\_\_\_\_

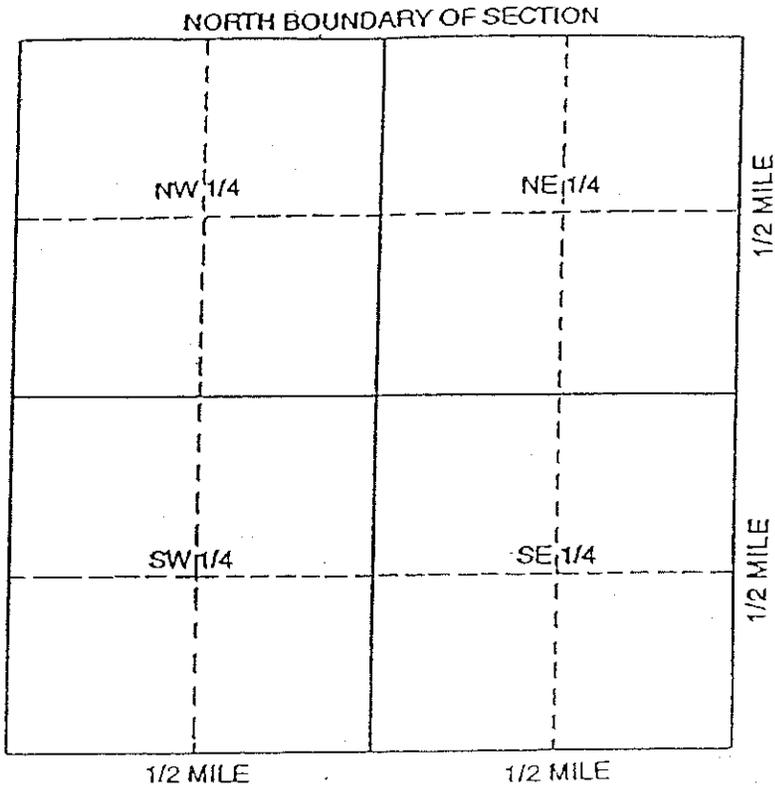
Permit Number: \_\_\_\_\_

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

(Name)

(Title)

# WELL LOCATION SKETCH



1/2 MILE

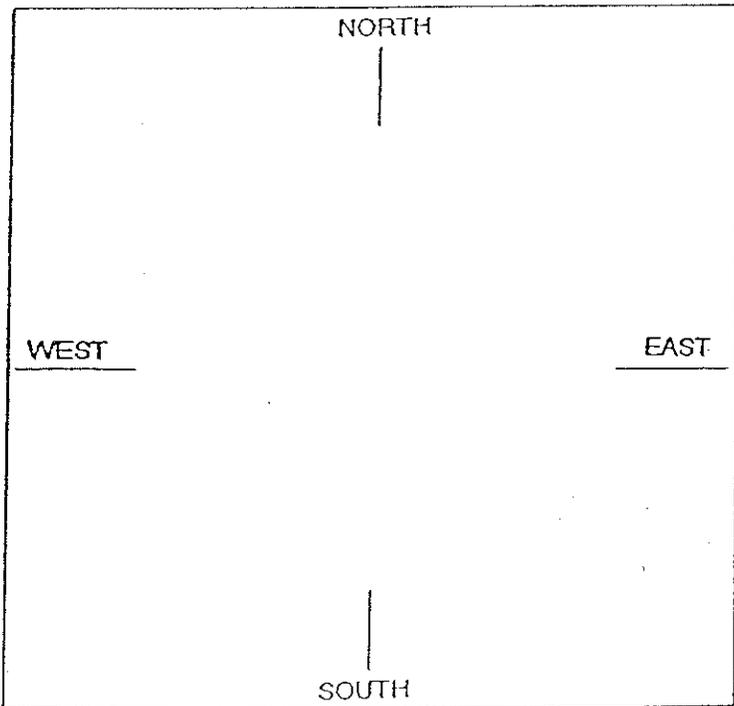
1/2 MILE

Township \_\_\_\_\_ N/S

Range \_\_\_\_\_ E/W

Section No. \_\_\_\_\_

A. Location of well in sectionized areas.  
 Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized.  
 Sketch roads, railroads, streams, or other features as necessary.  
 Indicate distances.

APPLICATION FOR WATER TREATMENT FACILITY

(1) APPLICANT:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

(2) LOCATION OF TREATMENT FACILITY:  
Address \_\_\_\_\_

Thomas Brothens Guide (Please include year, page number and coordinates.) \_\_\_\_\_

(Please include a map showing the location of the treatment facility relative to streets, buildings, water system facilities and other points of reference.) \_\_\_\_\_

(3) (A) NAME OF WATER TREATMENT FACILITY CONTRACTOR: \_\_\_\_\_

(B) NAME OF DESIGN ENGINEER AND STATE REGISTRATION NUMBER: \_\_\_\_\_

(4) PROPOSED ACTION AT TREATMENT FACILITY  
Construction  Modification  Removal   
Destruction  Other

(5) DESCRIPTION OF FACILITY:

(A) Type of treatment:  
Volatile Organic Chemical  Nitrate  Other   
(B) Please describe the treatment process to be used at the proposed treatment plant.  
\_\_\_\_\_  
\_\_\_\_\_

(C) Please list, by Owner Designation, all wells to be treated:  
\_\_\_\_\_  
\_\_\_\_\_

(6) ANTICIPATED TREATMENT FACILITY CAPACITY:

\_\_\_\_\_ Gallons Per Minute  
\_\_\_\_\_ Acre-foot Per Year

(7) EXPECTED CONCENTRATION OF CONTAMINANTS:

Contaminant	Contaminant		
	Influent Concentration (Parts per Billion)	Effluent Concentration (Parts per Billion)	Removal Rate (Percent)
Trichloroethylene (TCE)	_____	_____	_____
Tetrachloroethylene (PCE)	_____	_____	_____
1,1,1-Trichloroethane (1,1,1-TCA)	_____	_____	_____
Carbon Tetrachloride (CTC)	_____	_____	_____
1,1-Dichloroethylene (1,1-DCE)	_____	_____	_____
1,1-Dichloroethane (1,1-DCA)	_____	_____	_____
1,2-Dichloroethane (1,2-DCA)	_____	_____	_____
Others:	_____	_____	_____

(8) DISPOSITION OF ALL TREATED WATER:  
(Please describe disposition of all treated water, and the corresponding annual amount of discharge.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(9) INITIAL START-UP DATE: \_\_\_\_\_

(10) EXPECTED OPERATING SCHEDULE:

(A) Daily schedule \_\_\_\_\_  
(B) Number of days each month (Please specify if operating schedule varies month to month) \_\_\_\_\_

(11) EXPECTED COSTS:

(A) Capital cost: \$ \_\_\_\_\_  
(B) Operation and maintenance: \$ \_\_\_\_\_/AF.

(12) REGULATORY PERMITS: Please describe all necessary permits and/or all permits for which you have applied or have received from all regulatory agencies with regard to the proposed treatment facility. Please supply to Watermaster copies of all environmental documents required under the California Environmental Quality Act and/or the National Environmental Protection Act.

(13) Applicant acknowledges it will comply with all portions of Section 28 of Watermaster's Rules and Regulations pertaining to quarterly data submittal, for treatment plant operation, to Watermaster. Specifically, at least the following data shall be provided on a quarterly basis:

- Name or other designation of treatment facility;
- Quantity of water treated during quarter;
- Quantity of each contaminant removed;
- Quality of water before treatment, at beginning and end of each quarter;
- Quality of water after treatment, at beginning and end of each quarter; and
- Operation and maintenance costs for each quarter.

14) Please provide Watermaster with copies of all feasibility studies, alternative water supply sources, water quality studies or other report which validate the Applicant's need to install a water treatment facility. Applicant must provide supporting data to show compliance with the requirements of Section 28 with particular reference to Section 28(h) of Watermaster's Rules and Regulations.

Applicant must provide supporting data to show compliance with the requirements of Section 28 with particular reference to Section 28(h) of Watermaster's Rules and Regulations.

I hereby agree to comply with all regulations of the Main San Gabriel Basin Watermaster pertaining to treatment plant construction, operation, repair, modification, destruction and inactivation.

Submitted For Applicant By: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date Received by Watermaster: \_\_\_\_\_

Watermaster Action:  
Approved  Denied

Date of Action: \_\_\_\_\_

Permit Number: \_\_\_\_\_

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

(Name)

(Title)

**APPENDIX G**  
Five-Year Water Quality  
and Supply Plan



# **Five-Year Water Quality and Supply Plan**

November 2004



Main San Gabriel Basin  
**WATERMASTER**

Telephone (626) 815-1300 • Fax (626) 815-1303  
725 North Azusa Avenue • Azusa, California 91702

[www.watermaster.org](http://www.watermaster.org)

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# INTRODUCTION

Watermaster prepares and annually updates this Five-Year Water Quality and Supply Plan (Five-Year Plan) in accordance with the requirements of Section 28 of its Rules and Regulations. The objective is to coordinate groundwater-related activities so that both water supply and water quality in the Main San Gabriel Basin (Basin) are protected and improved.

## PURPOSE OF THE FIVE-YEAR PLAN

Many important issues are detailed in the Five-Year Plan, including how Watermaster plans to:

1. monitor groundwater supply and quality;
2. develop projections of future groundwater supply and quality;
3. review and cooperate on cleanup projects, and provide technical assistance to other agencies;
4. assure that pumping does not lead to further degradation of water quality in the Basin;
5. address perchlorate, N-nitrosodimethylamine (NDMA), and other emerging contaminants in the Basin;
6. develop a cleanup and water supply program consistent with the U.S. Environmental Protection Agency (USEPA) plans for its San Gabriel Basin Superfund sites; and
7. coordinate and manage the design, permitting, construction, and performance evaluation of the BPOU cleanup and water supply plan.

## WATERMASTER BACKGROUND

The Los Angeles County Superior Court created the Main San Gabriel Basin Watermaster in 1973 to resolve water issues that had arisen among water users in the San Gabriel Valley. Watermaster's mission was to generally manage the water supply of the Main San Gabriel Groundwater Basin.

During the late 1970s and early 1980s, significant groundwater contamination was discovered in the Basin. The contamination was caused in part by past practices of

local industries that had carelessly disposed of industrial solvents (VOCs), as well as by agricultural operations that infiltrated nitrates into the groundwater. Cleanup efforts were undertaken at the local, state, and federal level.

### WATERMASTER RECEIVES WATER QUALITY RESPONSIBILITIES

By 1989, local water agencies adopted a joint resolution regarding water quality issues that stated that Watermaster should coordinate local activities aimed at preserving and restoring the quality of groundwater in the Basin. The joint resolution also called for a cleanup plan.

In 1991, the Court granted Watermaster the authority to control pumping for water quality purposes. Accordingly, Watermaster added Section 28 to its Rules and Regulations regarding water quality management. The new responsibilities included developing this Five-Year Water Quality and Supply Plan, updating it annually, and submitting it to the California Regional Water Quality Control Board, Los Angeles Region, and making it available for public review by November 1 of each year.

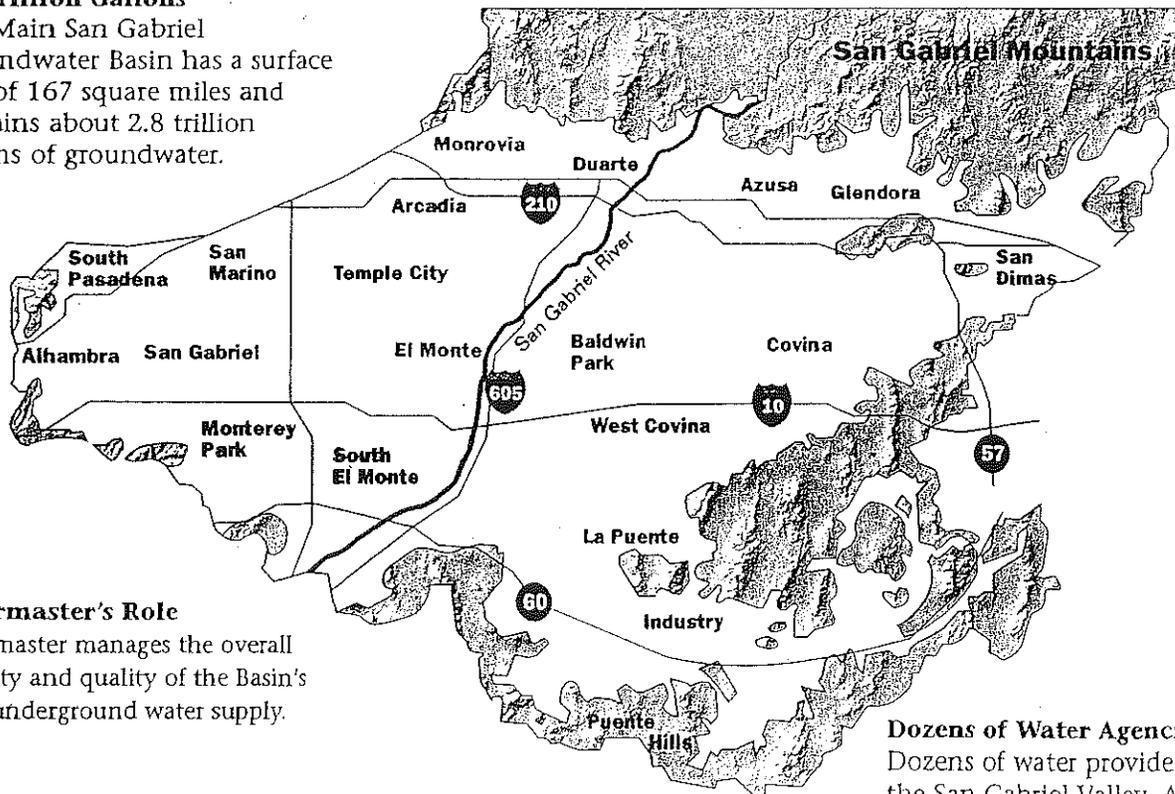
**Figure 1. AREA COVERED BY MAIN SAN GABRIEL BASIN**

#### Precious Underground Water Supply

The Main San Gabriel Basin provides up to 90 billion gallons of groundwater annually, enough to meet 80 percent or more of San Gabriel Valley's 1.4 million residents' demand for water.

#### 2.8 Trillion Gallons

The Main San Gabriel Groundwater Basin has a surface area of 167 square miles and contains about 2.8 trillion gallons of groundwater.



#### Watermaster's Role

Watermaster manages the overall quantity and quality of the Basin's giant underground water supply.

#### Dozens of Water Agencies

Dozens of water providers serve the San Gabriel Valley. Among them are cities, public water districts, private utilities, and mutual water companies.

# CURRENT WATER SUPPLY CONDITIONS

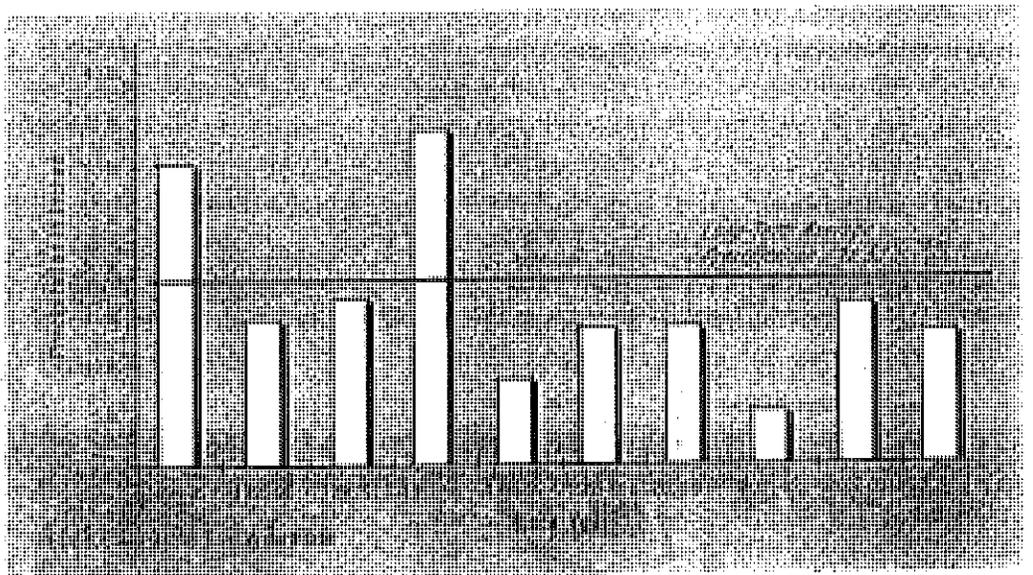
During 2003-04, rainfall in the San Gabriel Valley was about 75% of average. As a result of below average rainfall, recharge of storm water runoff was also below average. Despite dry weather over the past six years, Watermaster has successfully maintained groundwater levels above the lower end of the Basin operating range through careful groundwater management. In 2003, Watermaster made arrangements to deliver imported water for groundwater replenishment during the summer and fall when groundwater demand is very high. In 2004, only limited amounts of imported water were available through the summer.

## WATER SUPPLY INFLOWS DURING 2003-04

### RAINFALL NEAR LONG-TERM AVERAGE

In 2003-04, the San Gabriel Valley received 13.6 inches of rain, about 75% of the long-term average of 18.52 inches.

Figure 2. AVERAGE RAINFALL DURING THE LAST TEN YEARS



Rainfall in 2003-04 was 13.6 inches. Average precipitation in the Main San Gabriel Basin from 1994-99 to 2003-04 was 17.8 inches.

The rainfall total is made up of an average taken from four stations located in San Dimas, Diamond Bar, El Monte, and Pasadena.

### LOCAL STORMWATER CAPTURE SIGNIFICANTLY DOWN

Rainfall during fiscal year 2003-04 was about 75% of the 10-year average but occurred as several high intensity storms. Consequently, about 77,000 acre-feet of stormwater runoff in local streams and channels was captured and recharged into the groundwater Basin through spreading basins. This is also about 75% of the long-term average of 100,000 acre-feet.

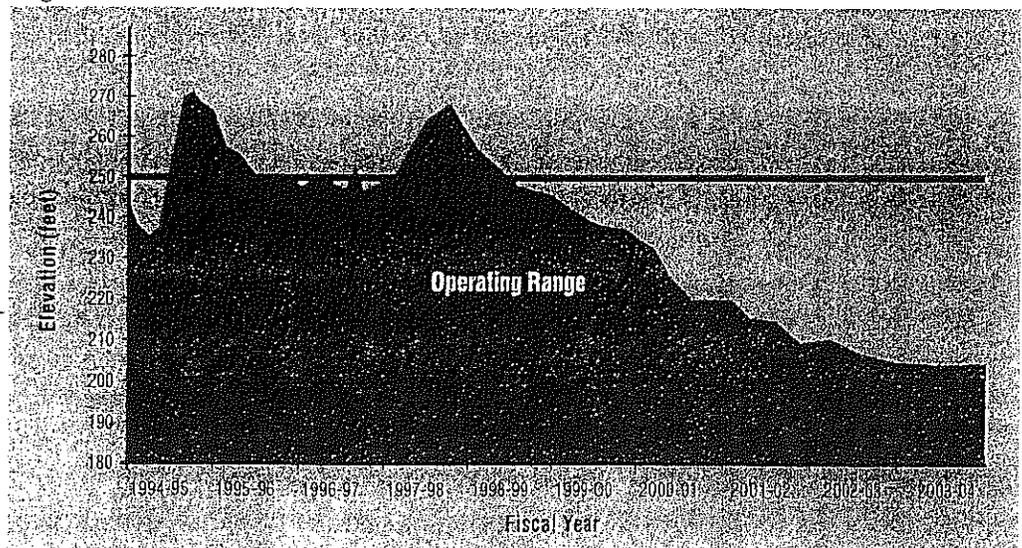
### WATER IMPORTS WELL ABOVE AVERAGE

Approximately 119,000 acre-feet of water was imported into the Basin in 2003-04, and consisting of about 51,000 acre-feet of treated water and about 68,000 acre-feet of untreated water for groundwater recharge from Northern California. This quantity is significantly greater than the 10-year average of about 70,000 acre-feet. The increase is partially the result of increased short-term reliance on treated, imported water to offset the loss of groundwater from wells that were shut down due to increasing levels of contaminants and partially the result of Watermaster's actions to recharge additional imported water to maintain the groundwater elevation at the Baldwin Park Key Well above 200 feet.

### KEY WELL NEAR LOW END OF OPERATING RANGE

The groundwater levels at the Key Well — located in Baldwin Park and used as the benchmark for determining the groundwater level for the entire Basin — fell from 212 feet above mean sea level on June 30, 2002, to 204 feet at the end of June 2003. As a result of Watermaster's Basin Management practices, the Baldwin Park Key Well elevation was maintained at 204 feet at the end of June 2004. The goal of Watermaster is to keep the Key Well water level between 200 feet and 250 feet. Despite five out of six years of below average rainfall Watermaster has maintained the level above the low end of the recommended operating range for the Basin, and water supplies continue to be adequate for meeting current needs.

Figure 3. KEY WELL ELEVATIONS DURING THE LAST TEN YEARS



The groundwater elevation at the Key Well on June 30, 2004 was 204 feet, which is slightly above the low end of the Basin's operating range of 200 to 250 feet.

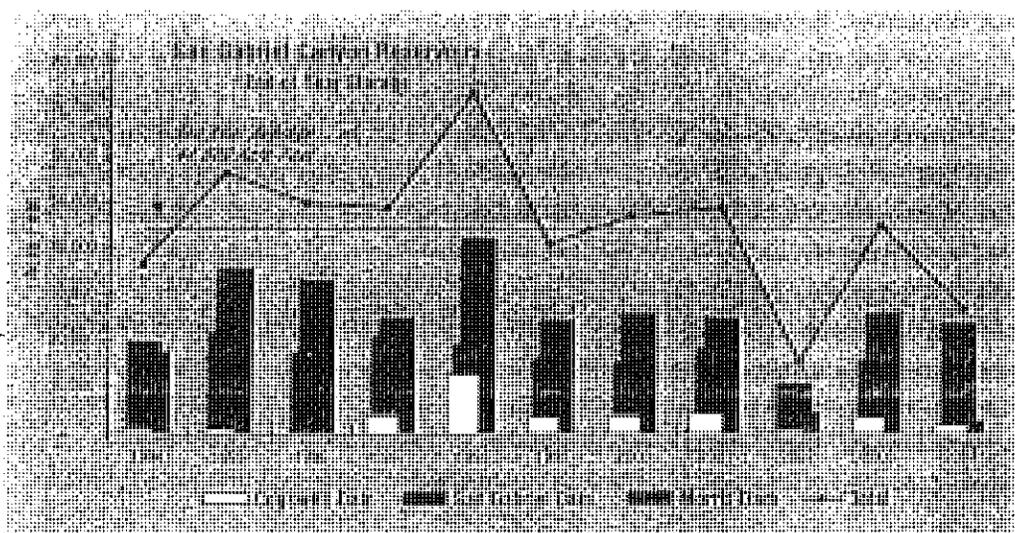
## INCREASE IN WATER STORED IN CANYON RESERVOIRS

A significant amount of local surface water can be stored in reservoirs behind Cogswell, San Gabriel, and Morris Dams. At the end of the 2003-04 fiscal year, a total of 27,000 acre-feet of water was stored behind these dams. This is a significant decrease from the previous dry year and represents only 60% of the 10-year average of about 44,600 acre-feet of water in storage at the end of the fiscal year.

Below average water conditions influenced Watermasters's decision to set the Operating Safe Yield at 170,000 acre-feet for 2004-05.

Total water stored in San Gabriel Canyon reservoirs at the end of the fiscal year was 27,000 acre-feet and is 60% of the 10-year average of 44,600 acre-feet.

Figure 4. WATER STORED IN SAN GABRIEL CANYON RESERVOIRS



## PROJECTED GROUNDWATER DEMANDS

### PRODUCER ESTIMATES

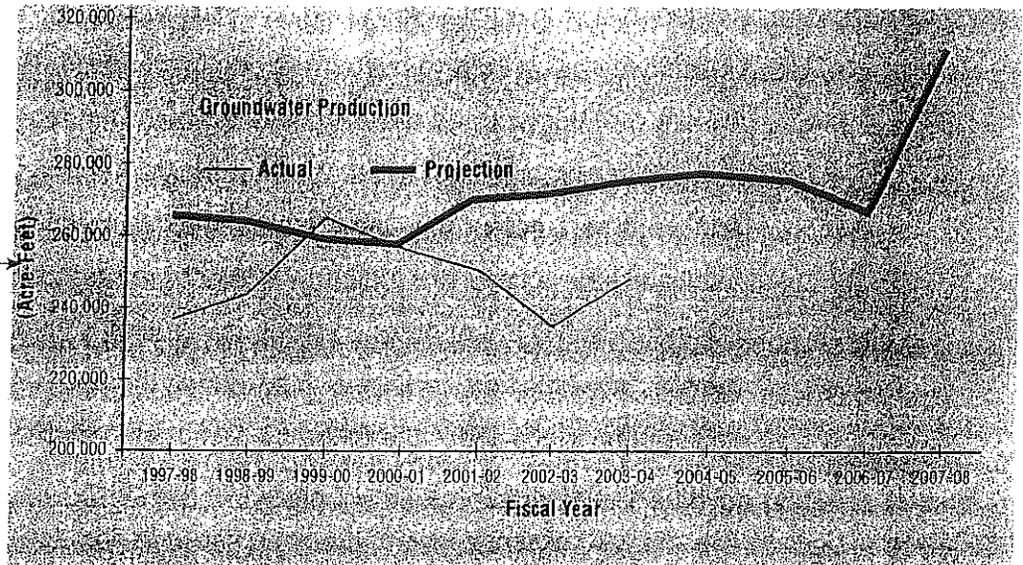
Section 28 requires that each Producer submit a report to Watermaster detailing its projected water supply and water production requirements over the following five years. Projections were received from 20 Producers, accounting for about 90% of the groundwater production from the Basin.

For those Producers who did not submit projections, Watermaster provided an estimate based on the assumption that each Producer had an aggregate projected growth rate that was the same as those Producers who did submit projections. Projected groundwater production is shown in Appendix A.

Figure 5 shows the total projected and historical groundwater production from the Basin since 1997-98.

Water production has decreased, due mainly to the spread of groundwater contamination.

Figure 5. PROJECTED AND HISTORICAL WATER PRODUCTION



Total actual groundwater production for the 2003-04 fiscal year from the Basin was 249,000 acre-feet, which is higher than the previous year's production of 236,000 acre-feet.

Groundwater production is influenced by a variety of conditions, including population, seasonal precipitation, groundwater contamination, and availability of surface water. Excluding the impacts of seasonal precipitation, groundwater production had been experiencing a gradual increase. However, the spread of groundwater contamination in recent years has caused several water agencies to reduce groundwater production and temporarily increase reliance on treated imported water.

## OTHER EXTRACTIONS

In addition to pumping by Producers, groundwater will be extracted at the U.S. Environmental Protection Agency's Operable Units. An Operable Unit is a term used to describe a portion of a large Superfund cleanup site. There are six active Operable Units in the San Gabriel Valley: Area 3, Baldwin Park, Puente Valley, El Monte, South El Monte, and Whittier Narrows. While the USEPA is principally concerned that the contamination be cleaned up, Watermaster insists that there not only be an effective cleanup, but that water supply needs also be met in the affected areas.

---

## CURRENT WATER QUALITY CONDITIONS

Groundwater delivered to customers continues to be of high quality and always meets state and federal drinking water standards. However, a number of contaminants in areas of the Basin require careful monitoring and treatment before the water is served for domestic use. These contaminants include a variety of industrial solvents referred to as volatile organic compounds (VOCs). Another common contaminant found in the Basin is nitrate, primarily from fertilizers used during the Valley's agricultural period. In addition, since 1997 the following new contaminants have also been detected: perchlorate, a solid rocket fuel ingredient; MTBE, a gasoline additive; NDMA, associated with liquid rocket fuel; and 1,4-dioxane, a stabilizer for chlorinated solvents.

In response to the detection of these contaminants, Watermaster and local water entities aggressively pursued construction of treatment facilities to control contaminant migration and continue providing high quality water to consumers. This policy of remediation and reuse both preserves a valuable resource and reduces the overall cost of groundwater cleanup. Initially, a number of VOC treatment facilities were constructed, while excessive nitrate concentrations were blended down to acceptable levels. Since the detection of perchlorate and NDMA, Watermaster has been instrumental in the successful implementation of treatment facilities to treat VOCs, perchlorate, and NDMA, with additional facilities operational within the next 6 to 12 months.

While only present in limited parts of the Basin, these chemicals pose difficult challenges to water Producers. Watermaster has responded vigorously by working closely with the local water community to sponsor research, as well as to design, fund, and construct cleanup projects ahead of the USEPA and the firms named as responsible for the contamination. More recently, Watermaster also led negotiations that resulted in the BPOU Project Agreement, including an initial reimbursement for groundwater cleanup costs from certain parties responsible for the contamination. Under the BPOU Project Agreement, Watermaster is responsible for overall project coordination and administration, groundwater monitoring, and compliance with USEPA reporting requirements. Watermaster also participates in decisions regarding technology selection, construction, and operations. Once the treatment facilities are operational, Watermaster will also monitor the project's performance in containing and removing contamination.

## **PRIMARY CONTAMINANTS IN THE GROUNDWATER BASIN**

### **VOLATILE ORGANIC COMPOUNDS AND NITRATES**

VOCs and nitrates are the most prevalent contaminants found in the Basin. Intensive monitoring and research concerning these two types of contaminants have been underway for many years. The location and cleanup methods for VOCs are generally well understood; during fiscal year 2003-04, 22 plants treated about 18 billion gallons of VOC-contaminated water. Water contaminated with nitrates above the Maximum Contaminant Level (MCL) is either blended with other sources or not used.

Note in Figure 6 that although VOC contamination is substantial, it is centered in a few areas, leaving a good portion of the Basin unaffected. The same is true for nitrates, which have the highest concentrations in the eastern portion of the Basin, away from the most productive pumping areas (see Figure 7).

Extensive cleanup programs are underway in the areas affected by VOC contamination. Because the main plumes of contamination are centered in just a few areas, much of the Basin remains unaffected.

Figure 6. VOLATILE ORGANIC COMPOUND LEVELS IN GROUNDWATER

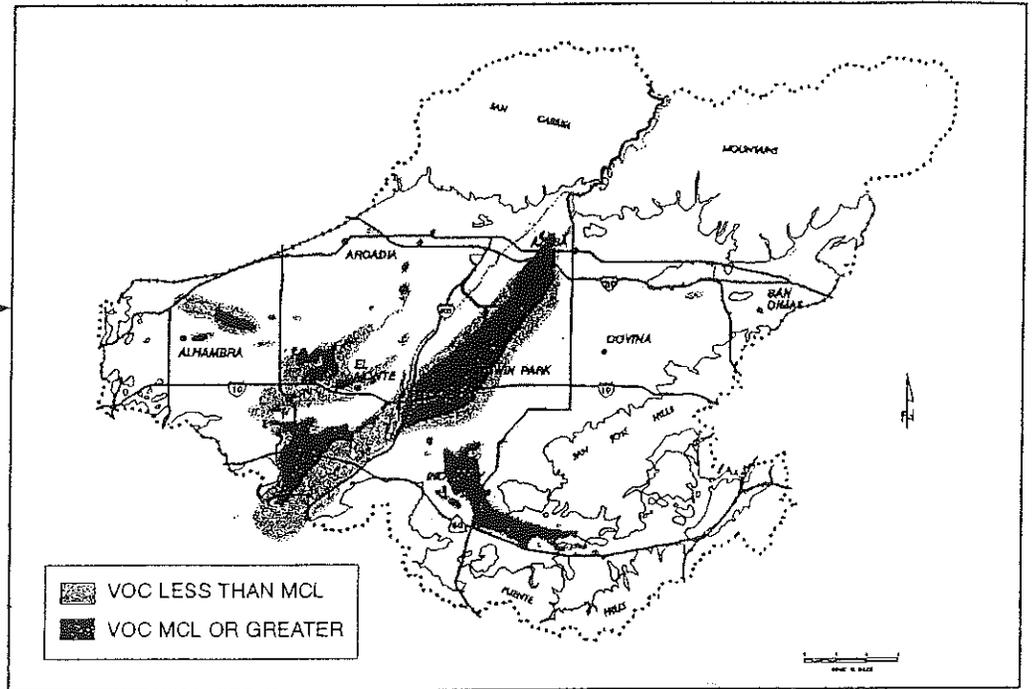
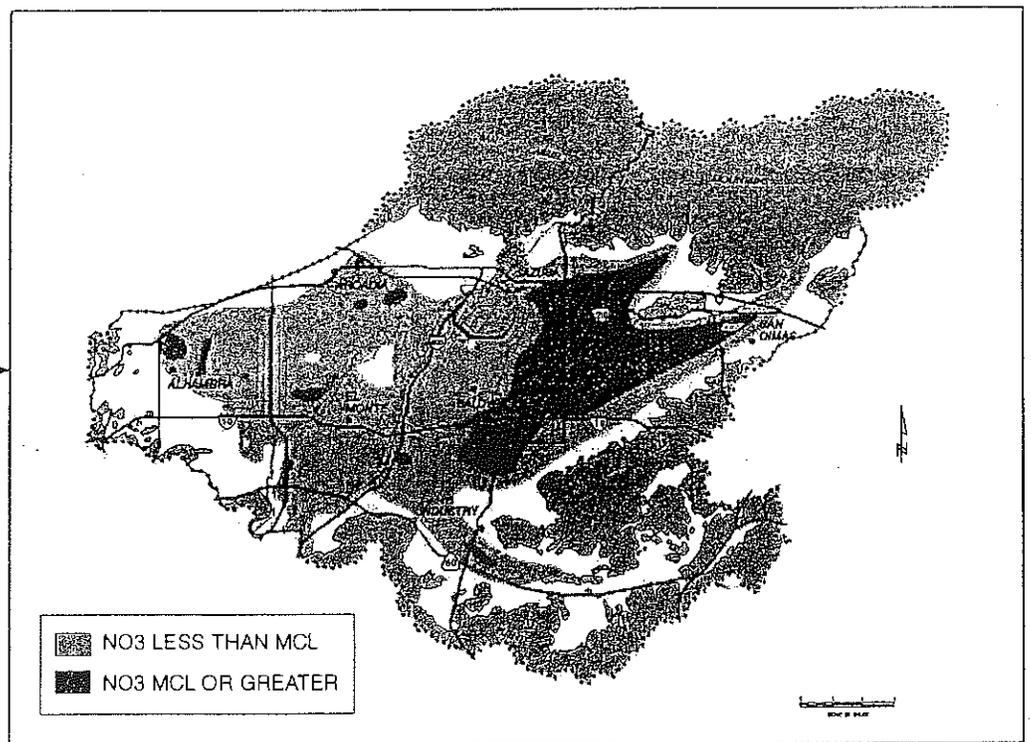


Figure 7. NITRATE LEVELS IN GROUNDWATER

Nitrate (NO<sub>3</sub>) contamination is focused in the eastern portion of the Basin, away from the San Gabriel River, the area of most intensive groundwater pumping.



## MTBE

In 1996-97, MTBE, a gasoline additive, was discovered in ground and surface water in many areas of the state. The State Department of Health Services (DHS) subsequently established an MCL of 13 parts per billion. Watermaster conducted Basinwide testing for the contaminant and only two drinking water wells had confirmed detectable levels, and those were below the MCL. However, the Regional Water Quality Control Board (Regional Board) has found MTBE in soil close to the surface near leaking underground storage tanks. Watermaster is working closely with the Regional Board to monitor these sites, which could pose a threat to the much deeper drinking water wells. Watermaster continues to collect MTBE samples on an annual basis and has found no detectable levels at any additional wells.

## PERCHLORATE

In January 2002, DHS lowered the Action Level (AL) for Perchlorate from 18 to 4 parts per billion and a total of 22 wells were removed from service due to unacceptable levels of perchlorate. DHS subsequently raised the AL to 6 parts per billion in March 2004. Watermaster played a key role in development of the first treatment technology to remove perchlorate from drinking water; this technology is now operational at the La Puente Valley County Water District (LPVCWD) facility, is undergoing regulatory testing at another site and is being prepared for testing at one other location in the BPOU area. Perchlorate treatment facilities have been constructed and are being planned in other areas of the Basin, as well.

## NDMA

During 1998 eight local wells were found to contain levels of NDMA above the AL at that time of 2 parts per trillion. Five of the wells with measurable levels of NDMA had already been taken out of service for other reasons, and the other three were put on inactive status once NDMA was detected. DHS subsequently raised the AL to 10 parts per trillion. Similar to Perchlorate, Watermaster is playing a key role with the construction of NDMA treatment facilities in the Baldwin Park Operable Unit area of the Basin. Two facilities are operational, two are built and undergoing testing, and one is under design.

The current maximum contaminant level (MCL) for arsenic is 50 parts per billion. However, USEPA has set a revised standard at 10 ppb; water purveyors must comply by 2006.

## ARSENIC

Arsenic is a naturally occurring substance that is sometimes found at very low levels in drinking water, primarily groundwater.

Pursuant to the Safe Drinking Water Act, USEPA established a new MCL for arsenic of 10 parts per billion. Water systems must comply with this new MCL by 2006. The current MCL is 50 parts per billion.

In order to ensure that the proposed new rule would be based on sound science, Watermaster helped fund a national study to determine the threshold at which arsenic causes adverse health effects. Watermaster also conducted low-level arsenic testing Basinwide to determine the impact of a new, more-stringent standard.



According to the Surgeon General, there is a significant health risk from radon in the air. The health risk from radon in drinking water, however, is considered very small.

## RADON

Radon is a colorless, odorless, naturally occurring gas found in soil, air, and some groundwater. It can be found throughout the world, both outdoors and in the indoor air of homes. It originates from soil, natural gas, building materials, and sometimes from domestic water. Most of the radon found in indoor air comes from soil below the foundation of a home. According to the Surgeon General, there is a significant health risk from radon in the air. The health risk from radon in drinking water, however, is considered very small.

The USEPA is proposing new requirements on radon found in water. As proposed, the rule offers states and water agencies two alternatives: (1) a very low maximum contaminant level of 300 picoCuries per liter for radon in drinking water, or (2) an alternative standard of 4,000 pCi/l if the state or a local water supplier implements an effective program to reduce overall exposure to indoor radon.

## CHROMIUM

Chromium is an inorganic chemical that commonly occurs naturally in groundwater and can also enter drinking water sources through discharges from industries and leachate from hazardous waste sites.

There are two forms of chromium that may be present in drinking water: chromium III (trivalent chromium) and chromium VI (hexavalent chromium). There are uncertainties about the ratio of the occurrence of the two types in drinking water sources. Chromium III is an essential nutrient at trace concentrations. Chromium VI is associated with health concerns, and its toxicity is the basis for setting the chromium drinking water standard.

The current MCL for total chromium is 50 parts per billion. In the San Gabriel Valley, at least a portion of total chromium in groundwater leaches out of the soil from naturally occurring deposits. During fiscal year 2000-01, Watermaster collected total chromium and hexavalent chromium samples from all drinking water wells, and all results were below the MCL. The hexavalent chromium results were provided to DHS to assist with its review and possible modification of the existing standard.

## **WELLS ASSESSED FOR VULNERABILITY TO CONTAMINATION**

One of the primary purposes of the Five-Year Plan is to identify wells in the Basin that are vulnerable to contamination. A well is considered vulnerable if the concentration of contaminants reaches 50 percent of the AL or MCL allowed by state drinking water regulations. In order to project which wells may be vulnerable over the next five years, Watermaster reviews water quality tests performed on each well, regional water quality conditions, and contaminant migration patterns. (See figures 8(a), 8(b) and 8(c).)

Watermaster maintains a Water Quality Protection Plan (found in a separate volume) that provides an early warning to inform Producers of potential increases in contaminant levels. The Water Quality Protection Plan also provides suggested alternative sources of supply, and proposes long-term actions to solve the contamination problem(s) without contributing to the migration of contaminants in the Basin.

Figure 8(a). WELLS VULNERABLE TO POTENTIAL VOLATILE ORGANIC COMPOUND CONTAMINATION WITHIN THE NEXT FIVE YEARS

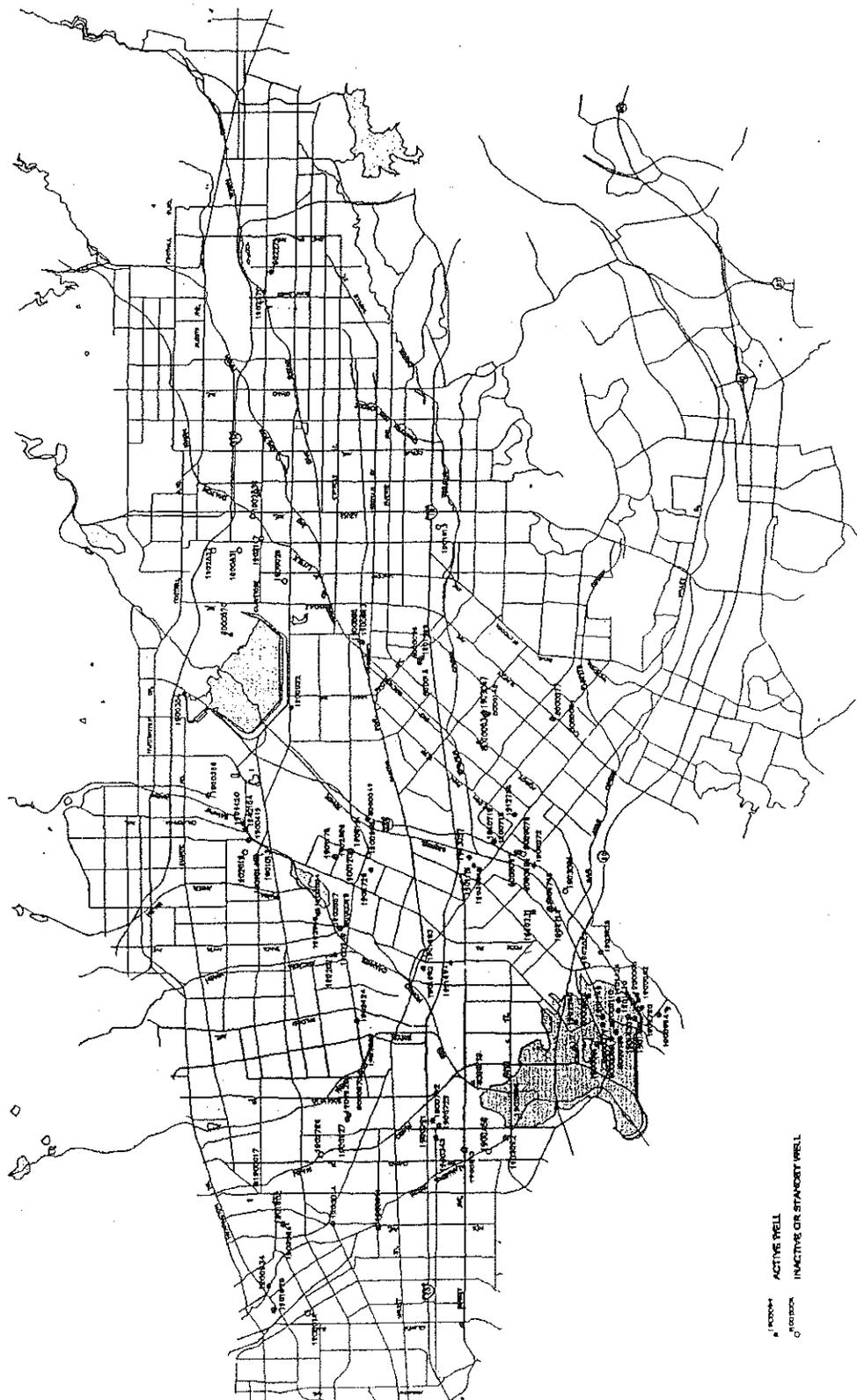


Figure 8(b). WELLS VULNERABLE TO POTENTIAL NITRATE CONTAMINATION WITHIN THE NEXT FIVE YEARS

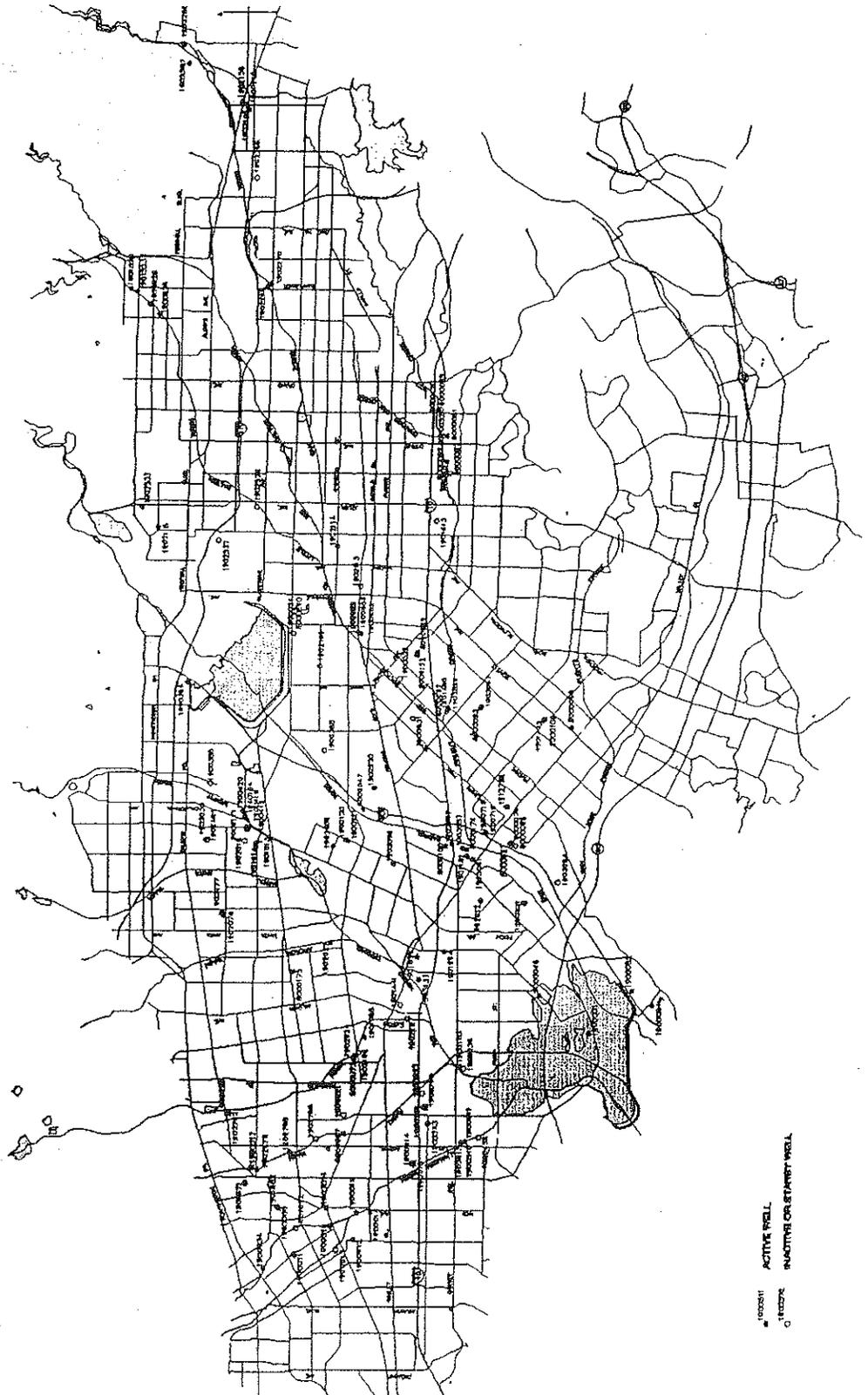
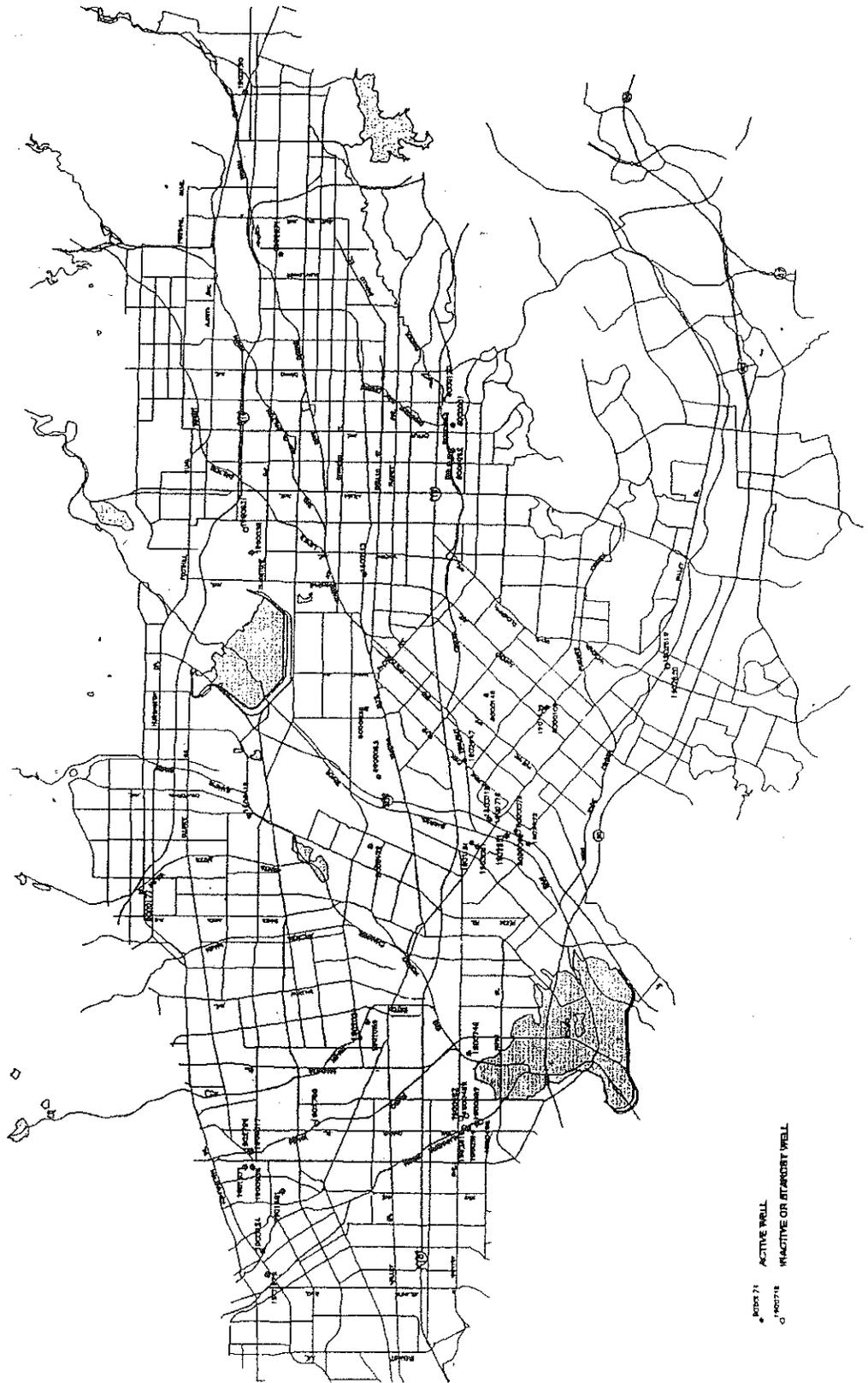


Figure 8(c). WELLS VULNERABLE TO POTENTIAL PERCHLORATE CONTAMINATION WITHIN THE NEXT FIVE YEARS.



# FIVE-YEAR WATER QUALITY AND SUPPLY PLAN

Since 1991, when Watermaster was given water quality management responsibilities by the Court, the focus of attention has been principally on understanding and treating volatile organic compounds (VOC). During the ensuing years, Watermaster, together with many other Basin water agencies, private water companies, and regulators, have worked to develop the expertise, financing, and treatment technologies to effectively undertake Basinwide cleanup of VOCs.

The discovery of perchlorate and NDMA, however, upset the existing VOC cleanup approach by creating a number of challenges. Most important, these new contaminants could not be removed using existing treatment plants, and a number of important VOC treatment plants had to be shut down since the new contaminants were found in areas of existing VOC contamination.

Watermaster encourages groundwater cleanup projects that also meet water supply needs

This report outlines a combined cleanup and water supply plan for each of the USEPA Operable Units (Superfund areas). Watermaster's plan for each area is consistent with the USEPA plans, and its goal is to implement cleanup as promptly as possible, with or without the cooperation of the Responsible Parties.

## GROUNDWATER MONITORING PROGRAMS

Monitoring involves measuring groundwater levels, groundwater quality, and groundwater flow. Watermaster continuously refines its understanding of the groundwater Basin in order to increase the safe yield of the Basin, and to protect and improve local water quality.

## **GROUNDWATER ELEVATION MONITORING**

### **CONTINUE KEY WELL AND SUPPLEMENTAL KEY WELL OPERATION AND DATA PROCESSING**

The entire 167 square-mile groundwater Basin is managed as one unit based on the groundwater levels as measured at a single Key Well in Baldwin Park. Water levels have been measured at this well since 1903 and are currently measured every three hours by an automated recorder.

Additional groundwater level recorders have been installed near the Santa Fe Spreading Grounds, adjacent to the San Gabriel River above the 210 Freeway, in the City of Rosemead, in the City of Covina and near the Whittier Narrows Dam, and are synchronized with the Key Well. Collectively, these wells are designed to provide a better understanding of the impacts of the recharge operation at the Santa Fe Spreading Grounds on the Basin hydrogeology. Water elevation data are being collected at additional wells, and water level recorders may be installed in those wells over the next five years.

### **CONTINUE BASINWIDE GROUNDWATER ELEVATION MONITORING PROGRAM (BGWEMP)**

The purpose of the BGWEMP is to obtain groundwater level measurements from a large number of wells across the Basin. The information is used to prepare contour maps that show the direction of groundwater flow. The data are then used in the Basin computer model to simulate future groundwater flows. The BGWEMP plan for the coming years includes:

- taking weekly measurements of water levels in nine primary wells;
- gathering semiannual measurements of water levels in 170 primary wells;
- obtaining water levels in secondary wells from well owners or water Producers, the San Gabriel Valley Protective Association, Regional Water Quality Control Board, USEPA, and others;
- updating the database for water level data; and
- preparing semiannual groundwater contour maps of the entire Basin.

## **GROUNDWATER QUALITY MONITORING**

### **CONTINUE BASINWIDE GROUNDWATER QUALITY MONITORING PROGRAM (BGWQMP)**

The goal of the BGWQMP is to sample all production wells in the Basin at least once a year for VOCs and nitrates. The frequency of BGWQMP sampling complements the monitoring requirements under state law and supplements information gathered through Regional Water Quality Control Board source investigations and USEPA remedial investigations. The data collected by BGWQMP are used to plot maps showing the current locations and magnitude of contaminant levels.

### **CONTINUE TITLE 22 WATER QUALITY TESTING**

Watermaster will continue performing state-mandated Title 22 water quality sampling of raw water from approximately 200 active wells in the Basin. Watermaster will also continue tracking regulations and informing local water purveyors when they need to take action on specific issues. Information from centralized water quality testing is added to Watermaster's water quality database, which contains data from many sources. The centralized testing enables Watermaster to spot trends that might otherwise go unnoticed and also lowers monitoring costs to Producers.

## **GROUNDWATER FLOW AND CONTAMINANT MIGRATION STUDIES**

Groundwater level and quality data are entered into the Basin computer model, which simulates where contamination is projected to flow in the future. The goal is to project contaminant levels by areas in advance of the actual event, and identify remedial steps to be taken.

### **GROUNDWATER ELEVATION SIMULATIONS SHOW FUTURE PUMPING WILL NOT SIGNIFICANTLY CHANGE GROUNDWATER MOVEMENT**

To determine the direction of groundwater flow through the Basin, Watermaster compiled the daily average 2003-04 production for each well, entered the data into the groundwater model, and simulated how production impacted water levels throughout the Basin. A simulation was then run using estimates for 2008-09. These simulations show that the estimated increase in groundwater production during the next five years will not significantly change the overall direction of Basin groundwater movement, which continues to flow generally from east to west to a pumping trough in the western portion of the Basin, and also northeast to southwest, exiting

through Whittier Narrows. The simulation for 2008-09 also shows localized pumping depressions in the Baldwin Park area, which are projected to be created by continuous groundwater pumping from extraction wells associated with the BPOU contaminant cleanup project. Contaminated groundwater from those wells will be treated at centralized treatment facilities and the DHS-permitted water will be provided for potable use.

### **SIMULATE IMPACTS OF GROUNDWATER PUMPING ON CONTAMINANT MIGRATIONS**

Simulations similar to the ones described above were used to make the finding that pumping has no major adverse impacts on contaminant migration.

Actual groundwater quality data from 2003-04 and projected quality data from 2008-09 were entered into the groundwater model for the contamination migration studies. The computer model then simulated how the flow of water would affect the migration of contamination. The simulation showed that changes in groundwater flow did not have major impacts on the migration of contaminants. (Refer to Figures 9 and 10.)

## **GROUNDWATER CLEANUP PROJECTS**

Watermaster coordinates and provides technical assistance on many cleanup projects in the Basin, but does not own or operate any cleanup facilities. Watermaster's involvement includes coordinating proposed USEPA cleanup programs with in-Basin water demands and providing assurance that projects are consistent with the Judgment.

### **REVIEW OF SECTION 28 APPLICATIONS**

Section 28 of Watermaster's Rules and Regulations requires that Watermaster review every proposal to construct, destroy, or modify a well or build a treatment plant. This regulation is required to ensure that any new or increased extractions from the Basin, or any changes in production patterns, are consistent with contamination cleanup efforts and will not adversely affect Basin water quality.

Figure 9. SIMULATED 2003-04  
BASIN GROUNDWATER CONTOURS

Simulations of the direction of groundwater flow in 2003-04 and projections for 2008-09 (on the following page) show that the estimated increase in groundwater pumping during this period does not significantly change the overall direction of Basin groundwater movement.

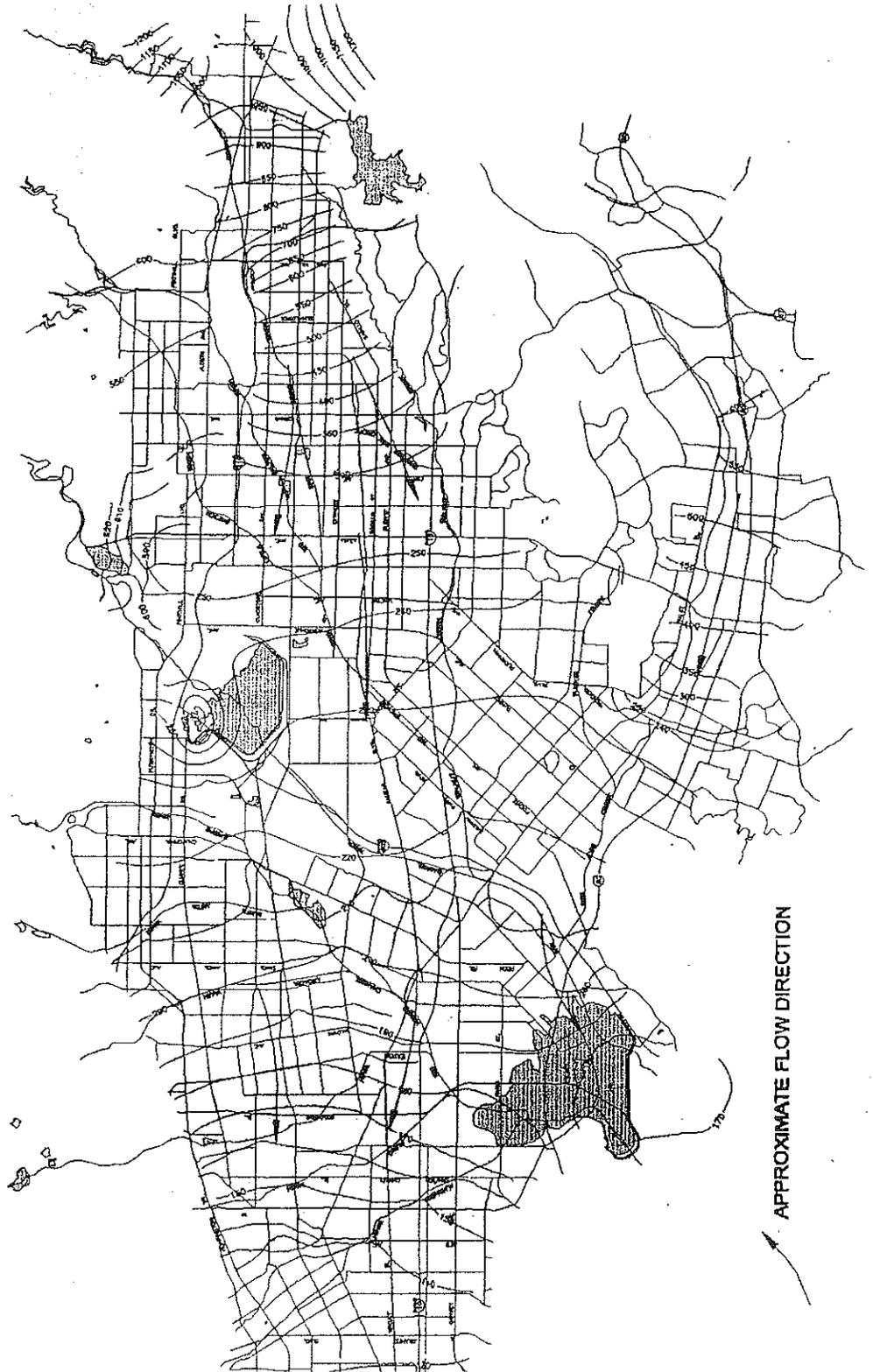
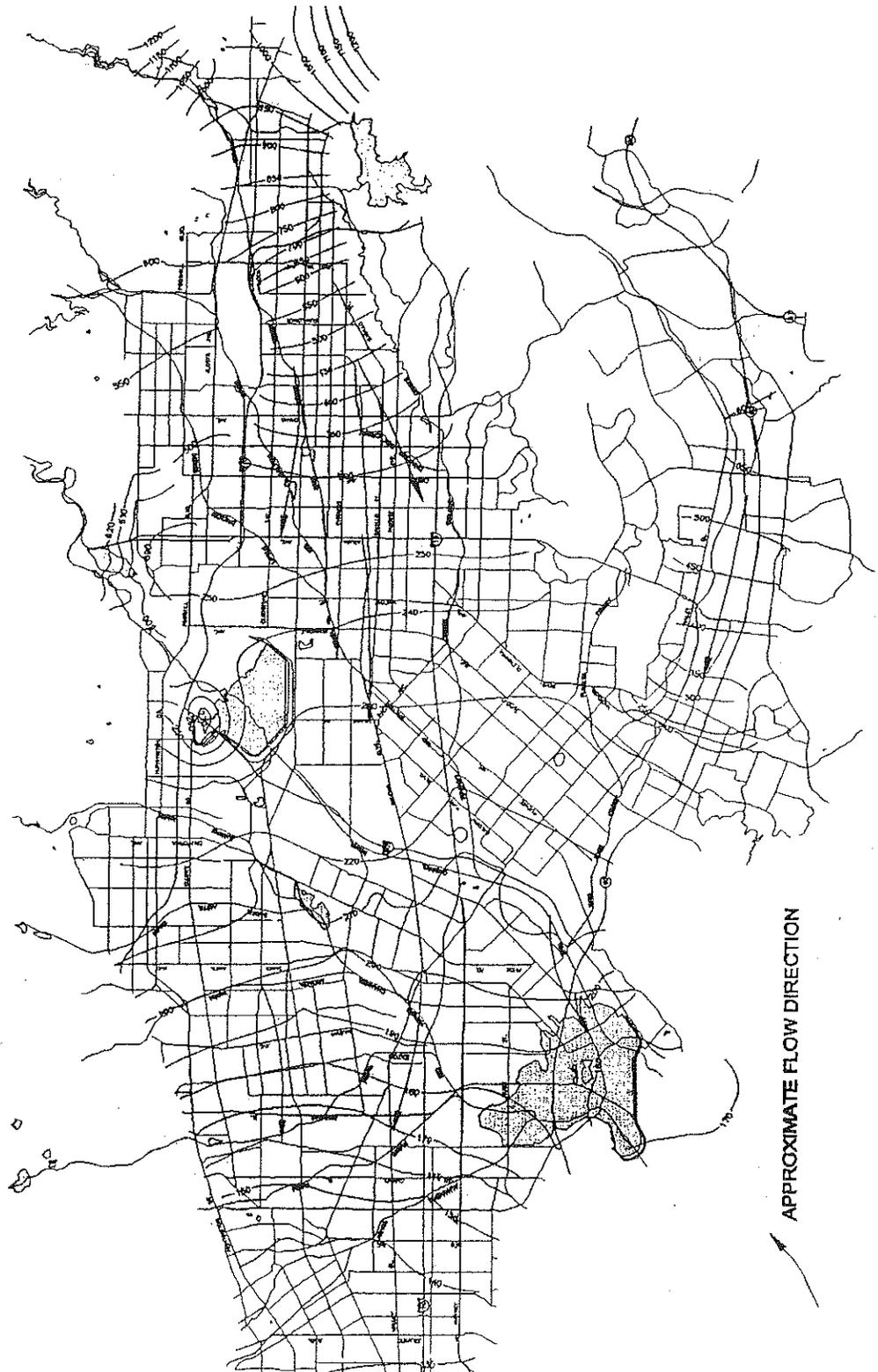


Figure 10. SIMULATED 2008-09  
BASIN GROUNDWATER CONTOURS



## WATERMASTER CLEANUP PROJECTS/USEPA OPERABLE UNIT PLANS

With USEPA plans generally in place, it is now possible for Watermaster to develop solutions that will provide effective cleanup, meet local water supply needs, and conform to the USEPA plans.

The USEPA established Operable Units for the various areas within the Basin that have been contaminated and require groundwater cleanup. The Operable Units are Area 3, Baldwin Park, Puente Valley, El Monte, South El Monte, and Whittier Narrows (See Figure 11). USEPA has established a methodical process that includes a review of the extent of contamination (Remedial Investigation), development of alternative cleanup plans (Feasibility Study) and selection of the most appropriate cleanup plan (Proposed Plan). Following these activities, the USEPA issues a report identifying the agreed upon Cleanup Plan (Record of Decision). Subsequently, the project facilities are designed and constructed.

The USEPA has made progress by identifying cleanup plans for nearly all the Operable Units. Unlike the USEPA, Watermaster is not only concerned with cleaning up the Basin, but also wants to meet the water supply needs of the region. With USEPA plans generally in place, Watermaster is working to develop solutions that not only provide effective cleanup and conform to the USEPA plans, but also meet local water supply needs.

This Five-Year Plan describes each of the Operable Units along with the proposed cleanup plan of the USEPA. In addition, the Plan describes the current and projected impacts on water supply caused by the contamination and the cleanup.

Watermaster intends to work with affected Producers and other local water agencies to implement cleanup of each Operable Unit as quickly as possible, with or without the cooperation of the Responsible Parties. Watermaster will continue to seek cost recovery from the Responsible Parties for any cleanup costs it incurs.

### BALDWIN PARK OPERABLE UNIT

The Baldwin Park Operable Unit (BPOU) is a seven-mile-long, one-mile-wide area of groundwater contamination that lies east of the San Gabriel River, beginning north of the I-210 freeway in Azusa to below the I-10 freeway in Baldwin Park (see Figure 12). The contamination has primarily resulted from improper use and disposal of chemicals in the Azusa area. The contamination continues to spread generally in a southwesterly direction.

The USEPA originally issued its Record of Decision (ROD), or cleanup plan, for the Baldwin Park Operable Unit several years ago. The ROD calls for pumping and treating groundwater in the northern area, where contaminant concentrations are highest, and also in the southern area to limit further migration of contaminants. The ROD involves pumping and treating about 6,000 gallons per minute in the northern areas and 16,000 gallons per minute in the southern area. The ROD also recommends the use of existing water supply wells, treatment systems, and pipelines, when feasible. Importantly, the plan encourages adding the treated water to the potable supply, rather than simply recharging it back into the ground or disposing of it to storm drains.

Figure 11. LOCATION MAP OF USEPA OPERABLE UNITS

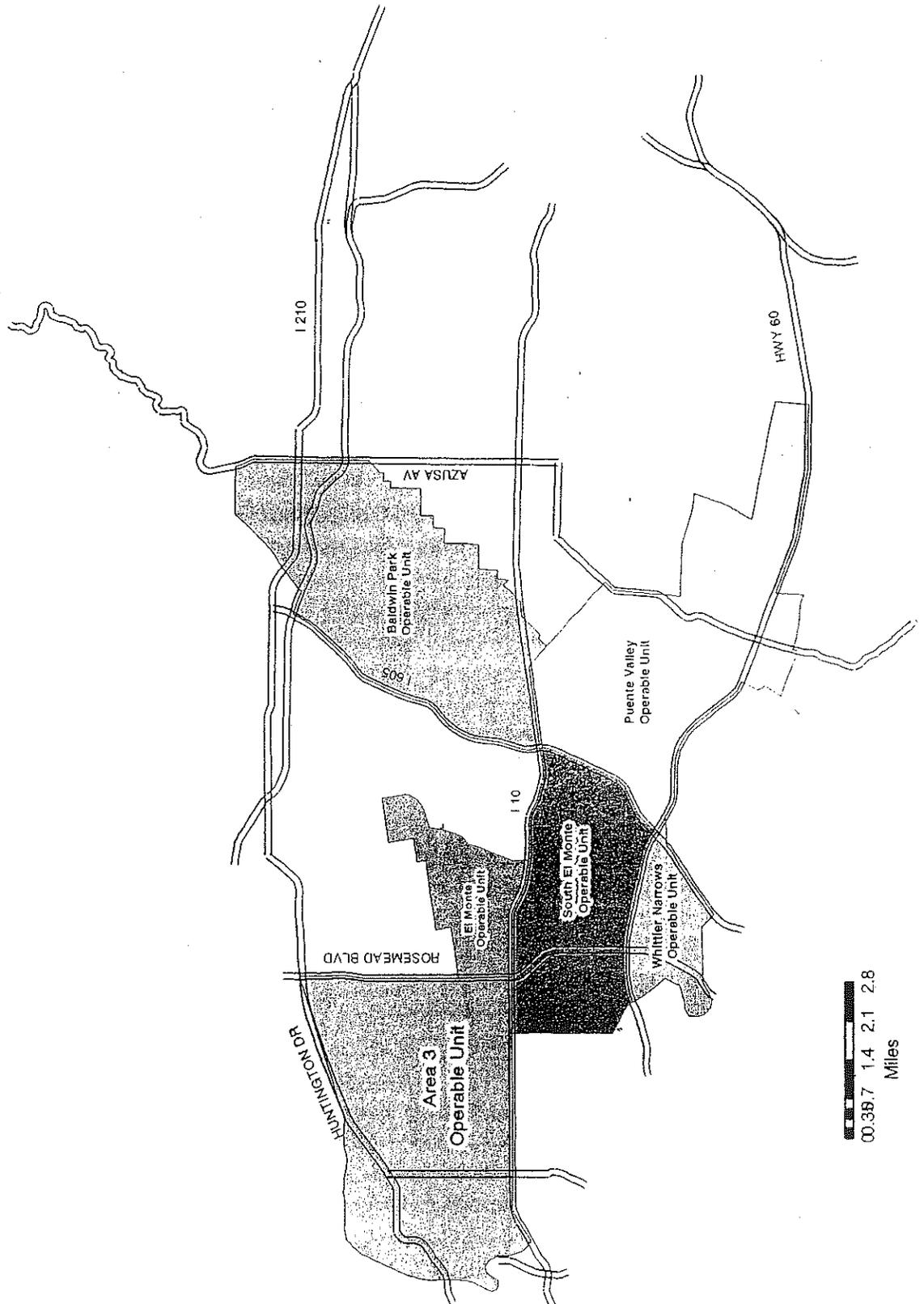


Figure 12. LOCATION MAP OF BPOU PROJECTS

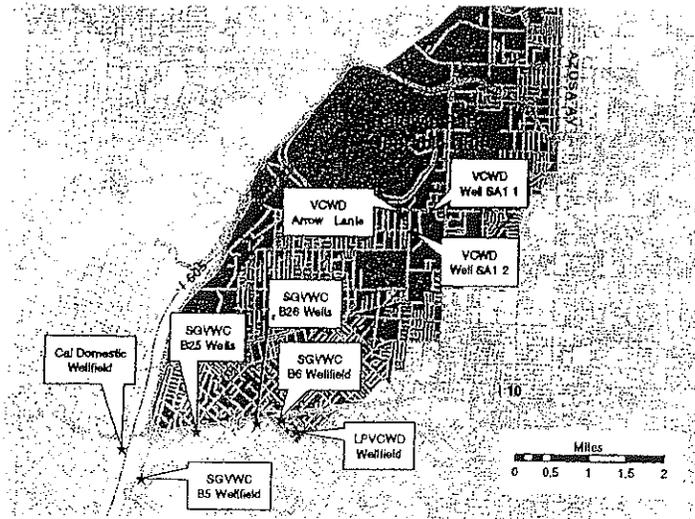


Figure 13. LOCATION MAP OF SEMOU PROJECTS

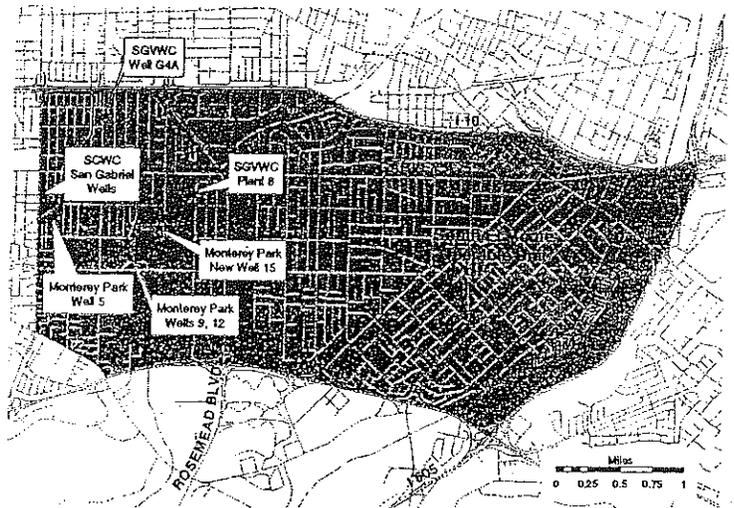


Figure 14. LOCATION MAP OF EMOU PROJECTS

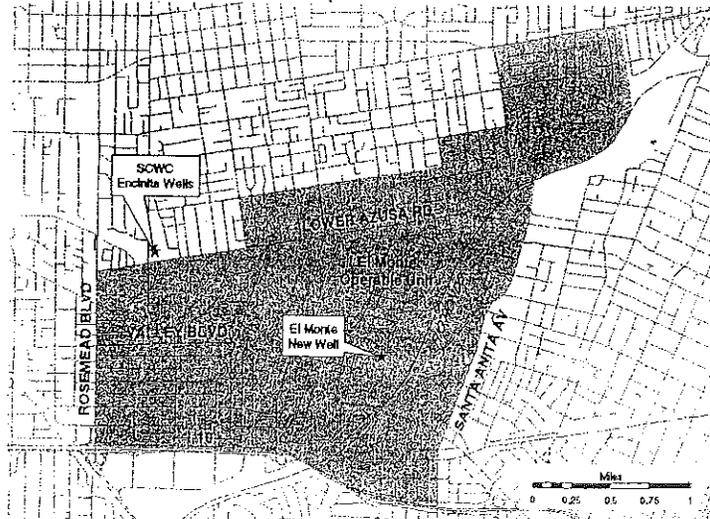


Figure 15. LOCATION MAP OF PVOU PROJECTS

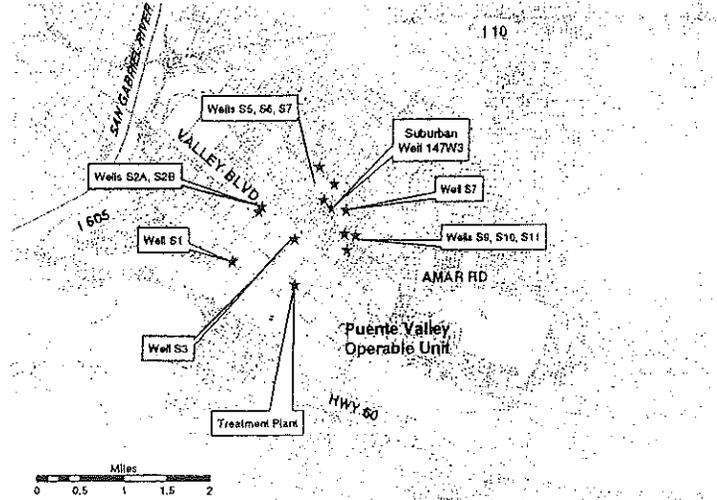


Figure 16. LOCATION MAP OF WNOU PROJECTS

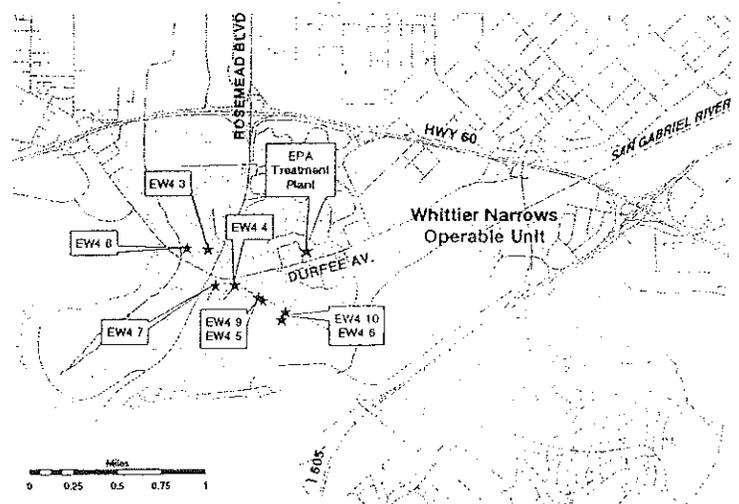
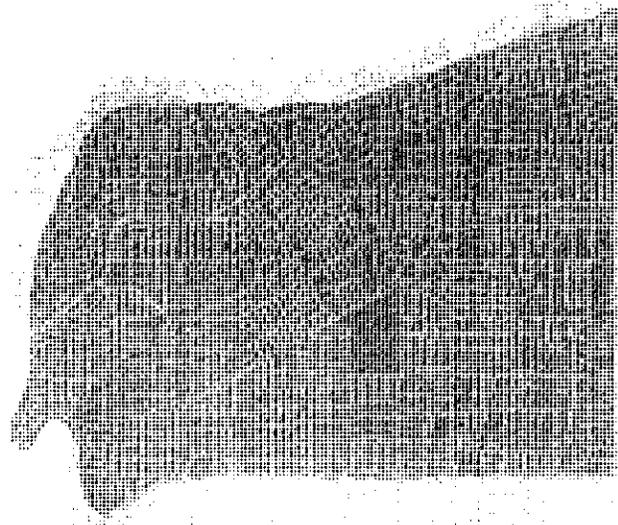


Figure 17. LOCATION MAP OF AREA 3 PROJECTS



Within the last few years, the discovery of the new contaminants perchlorate and NDMA has resulted in the shutdown of numerous treatment facilities that were designed by local water agencies to remove volatile organic compounds but not the new contaminants. Shutting down the treatment plants has allowed the contaminants to migrate southward into previously unaffected areas, in turn forcing the shutdown of other water supply wells.

In 2002, after several years of negotiation led by Watermaster, eight of the BPOU Responsible Parties (called Cooperating Respondents, or CRs) and seven water entities signed the BPOU Project Agreement. Under this landmark agreement, the CRs pay the cost to construct and operate the USEPA-required BPOU cleanup facilities for 15 years. Several water purveyors will own and operate the facilities as required by USEPA and will use the highly treated water in their water systems. The San Gabriel Basin Water Quality Authority (WQA) has obtained outside funds to help construct necessary treatment facilities, extraction wells and pipelines. Watermaster is providing project management and project coordination services.

Watermaster will continue to coordinate BPOU cleanup activities among the various parties over the next 13 years, including interfacing with USEPA, overseeing agreements between water purveyors to use the treated water, and providing accounting services to track Project costs and funds received. Following permitted operation of the BPOU Project facilities, Watermaster will coordinate collection of field data, such as water production, water quality and water levels, and will provide Project performance reports to USEPA.

The BPOU Project consists of four centralized treatment facilities with a combined extraction and treatment capacity of 25,900 gpm. Those treatment facilities are located at Valley County Water District's (VCWD) Lante Well site (7,800 gpm), San Gabriel Valley Water Company's (SGVWC) Plant B6 (7,800 gpm) and Plant B5 (7,800 gpm), and La Puente Valley County Water District's (LPVCWD) well site (2,500 gpm).

In the northerly portion of the BPOU, the VCWD Project consists of three extraction wells, including two new wells, pumping up to 7,800 gpm (average annual rate of 7,000 gpm) to a centralized treatment facility at the VCWD Lante Well site. The VCWD Project includes new raw water pipelines from Wells SA1-1 and SA1-2 to the treatment plant, which consists of separate facilities to treat VOCs, perchlorate, NDMA, and 1,4-dioxane. In addition, a treated water pipeline will provide at least 5,500 gpm of fully treated water to Suburban Water Systems to offset production lost from some of its wells; VCWD will use the remaining 1,500 gpm. The VCWD Project is anticipated to be operational by 2005. The location of the VCWD Project is shown on Figure 12.

In the southerly portion of the BPOU are three treatment projects—the LPVCWD treatment facility (2,500 gpm), SGVWC B6 Project (7,800 gpm), and SGVWC B5 Project (7,800 gpm). The location of these treatment facilities is shown on Figure 12.

The LPVCWD project is permitted by DHS and has been operational since March 2001. Treated water in excess of LPVCWD's needs is provided to Suburban Water Systems (SWS) to enable the treatment facility to be operated on a continuous basis.

The SGVWC B6 project, now operational and awaiting a DHS permit, consists of four new extraction wells and a centralized treatment facility that will treat up to 7,800 gpm (average annual rate of 7,000 gpm). The treatment facility will treat the contaminated groundwater for VOCs, perchlorate, NDMA, and 1,4-dioxane. Once the DHS permit is received in early 2005, the treated water will be provided to SGVWC customers.

The SGVWC B5 Project consists of one new extraction well along with two existing wells that will provide up to 7,800 gpm (average annual rate of 7,000 gpm) to a centralized treatment facility located at the SGVWC B5 site. The treatment facility will treat the contaminated water for VOCs, perchlorate, NDMA, and 1,4-dioxane. Following receipt of a permit from DHS, the treated water will be provided to City of Industry customers (1,200 gpm) and the balance provided to SGVWC customers. The SGVWC B5 Project is anticipated to be operational by spring 2006.

#### FIVE-YEAR BPOU WATER SUPPLY/CLEANUP PLAN

PROJECT	DESCRIPTION	VULNERABLE WELLS TARGETED	STATUS	EPA BPOU ROD	WATERMASTER ROLE DURING NEXT FIVE YEARS
1. LPVCWD	2,500 gpm Treatment Facility	LPVCWD Wells 2, 3, & 4 Potentially SWS 140W-3, 4 & 5	Complete 2000	Yes	Coordinate funding, data collection, performance reports for 2005-09
2. SGVWC	7,800 gpm Treatment Facility Plant B6	SGVWC B6C, B6D, B25A, B25B, B26A, B26B Potentially SGVWC B4B/B4C	To be completed 2004-05	Yes	Coordinate design, construction, permitting 2004-05. Coordinate funding, data collection, performance reports 2005-09
3. SGVWC	7,800 gpm Treatment Facility Plant B5	SGVWC B5A, B5B, B5E Potentially Industry 3, 4, & 5 Potentially Cal Domestic 2, 3, 5A, 6, 8 & 14	To be completed 2005-06	Yes	Coordinate design, construction, permitting 2004-06. Coordinate funding, data collection, performance reports 2006-09
4. VCWD	7,800 gpm Treatment Facility Lante	VCWD Arrow, Lante Maine East, Maine West Potentially SWS 139W-2, 4, 5 & 6	To be completed 2004-05	Yes	Coordinate design, construction, permitting 2004-05. Coordinate funding, data collection, performance reports 2005-09

The projects will ensure that there is an adequate water supply for the Baldwin Park Operable Unit area. These projects are consistent with the USEPA ROD, meet contaminant removal and containment requirements, and meet local water supply needs.

In addition to the USEPA-required BPOU facilities, several water purveyors have had to build treatment facilities at other wells within the BPOU area in order to meet water supply needs until the USEPA remedy prevents the continued spread of contamination. These additional facilities are shown below.

**WELL OWNER TREATMENT PROJECTS  
IN THE BALDWIN PARK OPERABLE UNIT**

<b>OWNER</b>	<b>PROJECT</b>	<b>STATUS</b>
1. California Domestic Water Company	Treatment Facility for Wells 3, 5A, 6 & 14	Complete 2002
2. Suburban Water Systems	Treatment/blending projects for Well 140W-5	Complete 2003-04
3. Valley County Water District	Treatment Facilities for East Maine/West Maine Wells and East Nixon/West Nixon	Complete 2003-04

**SOUTH EL MONTE OPERABLE UNIT**

The South El Monte Operable Unit (SEMOU) covers approximately eight square miles in the south-central portion of the Basin. It is bounded by the I-10 Freeway, the 60 Freeway, the I-605 Freeway, and San Gabriel Boulevard. (See Figure 13). A ROD for the SEMOU was issued in 2000. In support of cleanup efforts, select Responsible Parties are currently working with impacted water purveyors and WQA in an effort to fund necessary water supply/cleanup projects. Watermaster continues to support these efforts.

The City of Monterey Park (Monterey Park) Wells No. 5 (1,900 gpm) and 9, 12, and 15 (4,500 gpm) were to be treated for VOCs only. During calendar years 2000 and 2001 when the treatment facilities for these wells were under design, perchlorate had been found above the detection level of 4 ppb, but below the Action Level at that time of 18 ppb. With implementation of the revised DHS Action Level of 4 ppb during January 2002, the existing permitted treatment facilities located at the site of Monterey Park Wells No. 5 and 12 were rendered inoperative. During March 2004 the perchlorate AL was raised to 6 ppb.

Monterey Park is working with DHS on a plan to treat both VOCs and perchlorate at its Well No. 5. That plan includes use of the existing liquid-phase granular activated carbon (LGAC) vessels and may be permitted during the winter of 2005. Monterey Park also has added a new perchlorate treatment system for its Wells No. 9, 12 and 15 that uses a disposable resin, as a supplement to the existing VOC treatment facility. This facility also employs LGAC vessels following the VOC and perchlorate treatment facilities. The modified 4,500 gallons per minute (gpm) treatment facility may be permitted by DHS during fall 2004.

The SGVWC Plant 8 VOC Treatment Facility has a capacity of 5,000 gpm and has been in operation since fiscal year 2001-02. No new compounds were detected during fiscal year 2003-04. VOC concentrations have risen in the groundwater. To ensure treatment facility operations are not impacted SGVWC has voluntarily initiated construction of supplemental VOC treatment at its Plant 8.

The Southern California Water Company (SCWC) VOC treatment facility at San Gabriel Wells No. 1 and 2 had been permitted and operating. However, with the establishment of the revised Perchlorate AL in 2002, SCWC voluntarily removed one of the wells from operation. SCWC is now installing a disposable resin system to remove perchlorate from that well. SCWC plans to have the modified treatment facility operational and permitted by DHS during fiscal year 2004-05.

#### FIVE-YEAR SEMOU WATER SUPPLY/CLEANUP PLAN

PROJECT	DESCRIPTION	STATUS
1. Monterey Park	New Well 15, 1,500 gpm; Wells 9 & 12 Treatment Plant, 4,500 gpm	Treatment Facility Complete in 2001-02. (Well 9 only) Well 12/15 Treatment Plant complete 2004-05
2. Monterey Park	Well 5 Treatment Plant, 1,900 gpm	Existing VOC Treatment Perchlorate treatment 2004-05
3. SGVWC	G4A Well Treatment Facility 775 gpm	To be completed 2004-05
4. SCWC	San Gabriel Wells 1 & 2 Treatment Facility 2,200 gpm	Treatment Facility complete in 2003-04 (SG1 only)
5. SGVWC	Plant 8 Treatment Facility 5,000 gpm	Treatment Facility complete in 2001-02 Additional Treatment Facility 2004-05

While funding negotiations proceed for the entire SEMOU, and USEPA carries out its characterization and enforcement process, water purveyors have proceeded with planned cleanup projects with assistance from WQA.

## EL MONTE OPERABLE UNIT

The El Monte Operable Unit (EMOU) covers an area of about 10 square miles in the south-central portion of the Basin. It is bounded by the I-10 Freeway in the south, Rosemead Boulevard in the west, and Santa Anita Avenue and Rio Hondo on the east. The northern boundary generally follows Lower Azusa Road. (See Figure 14). While shallow contamination is found throughout the EMOU, deep (intermediate zone) contamination is found in the northwest and easterly area of the EMOU.

The USEPA's ROD for the EMOU includes numerous small, shallow extraction wells and treatment, along with two areas of deep extraction and treatment. Due to generally poor water quality in the area, the shallow groundwater will not be used for a potable supply. The deep extractions are recommended for potable use by the local water purveyors. The deep zone extraction and treatment in the northwest area is planned to be accomplished by the existing Encinita Well and Treatment Facility owned by Southern California Water Company. Deep zone extraction is also planned for new wells to be constructed at California-American Water Company's (CAWC) Blue Ribbon Wells No. 1 and No. 2 sites. The new extraction wells will pump to new LGAC vessels to remove VOCs.

During July 2002, USEPA issued an Explanation of Significant Differences (ESD), which indicated that perchlorate, NDMA, 1,4-dioxane, and hexavalent chromium had been detected in excess of DHS action levels. In the event water from extraction wells cannot be blended to acceptable levels, additional treatment facilities will need to be installed, significantly increasing cleanup costs. Thus far, extraction and treatment of VOCs at SCWC Encinita Plant has not been impacted.

Watermaster will continue to assist with data collection and permitting of facilities over the next five years.

The Five-Year Water Supply/Cleanup Plan for the EMOU is presented on the following table.

### FIVE-YEAR EMOU WATER SUPPLY/CLEANUP PLAN

PROJECT	DESCRIPTION	STATUS
1. SCWC	Encinita Well and Treatment Facility 1,200 gpm	Project complete
2. CAWC	News Wells and Treatment Facility	Project negotiation 2004-05



### PUENTE VALLEY OPERABLE UNIT

The Puente Valley Operable Unit (PVOU) lies in the southeastern portion of the Basin, essentially bounded by the 60 Freeway in the south, Azusa Avenue in the east, and the I-10 Freeway in the north. (See Figure 15.) The PVOU encompasses the Puente Valley, which is tributary to the southeasterly portion of the Basin. Contamination in the PVOU includes various VOCs. All aquifers within the PVOU (shallow, intermediate, and deep) are considered sources for municipal water supplies.

The USEPA has issued a ROD for the PVOU. The plan identified in the ROD includes extraction and treatment of groundwater within the shallow and intermediate zones from wells located in the center of the PVOU. The proposed location of shallow zone extraction wells is shown on Figure 15. Watermaster is currently working with local water entities to develop a plan to use water from the PVOU treatment facility for potable purposes. Watermaster and local water entities have proposed constructing additional treatment to remove low levels of perchlorate and providing the treated water to a local purveyor for potable use. The proposed USEPA project would discharge the treated water into a nearby channel for groundwater recharge.

The following table presents the Five-Year Water Supply/Cleanup Plan for the PVOU.

#### FIVE-YEAR PVOU WATER SUPPLY/CLEANUP PLAN

PROJECT	DESCRIPTION	VULNERABLE WELLS TARGETED	STATUS
SWS	Shallow Zone Treatment Facility	SWS Well 147W-3	To be completed 2004-05 Negotiation with Responsible Parties 2004-05

### WHITTIER NARROWS OPERABLE UNIT

The Whittier Narrows Operable Unit (WNOU) is located in the south-central portion of the Basin. Most of the surface and groundwater flow out of the Basin travels through the WNOU, located roughly between the Narrows and the 60 Freeway, with foothills on the west and east boundaries. (See Figure 16). The WNOU has shown low to moderate levels of VOCs, with concentrations increasing in recent years. Contaminants that migrate through the WNOU will enter the Central Basin aquifer.

The USEPA has declared that the WNOU is a "fund-lead" project, meaning that the USEPA (with the state) will fund the design, construction, and operation of the remedy and will seek cost recovery from responsible parties later. The USEPA cleanup plan involves a series of shallow and intermediate zone extraction wells with treatment. The total extractions are estimated to be about 11,000 gallons per minute (5,000 gpm shallow and 6,000 gpm intermediate). All treated water is intended for potable use, although a small amount may be used for irrigation near the Narrows.

USEPA conducted startup testing of the WNOU treatment facility between February and June 2002. During that time USEPA and Watermaster negotiated a Water Production Agreement enabling USEPA to proceed with WNOU groundwater cleanup without adversely impacting Basin groundwater storage. During June 2002 USEPA began treating the full 11,000 gpm at the WNOU treatment facility. During fiscal year 2002-03 USEPA continued full operation of the treatment facility. During that time NDMA was detected in some of the shallow extraction wells, prolonging the testing and review process for the shallow zone water through June 2006. The City of Whittier has obtained a DHS permit to use the 6,000 gpm of treated intermediate zone water for municipal use instead of producing water from its existing wells. The City is negotiating with USEPA concerning the operation of the treatment facility.

USEPA intends to pursue a permit from DHS for potable use of shallow zone water over the next two years. The Water Production Agreement originally set to expire in May 2004 has been extended to accommodate that schedule. The following table presents the Five-Year Water Supply/Cleanup Plan for the WNOU.

#### FIVE-YEAR WNOU WATER SUPPLY/CLEANUP PLAN

PROJECT	DESCRIPTION	VULNERABLE WELLS TARGETED	STATUS	WATERMASTER ROLE
1. Shallow Extraction Project	EPA Wells, Pipe Treatment Facilities 5,000 gpm	Whittier 13, 15, 16, 17 & 18 Los Angeles County	Complete 2002. Potable operations 2006-07	Monitor groundwater production, assist with data collection 2005-09
2. Intermediate Extraction Project	EPA Wells, Pipe Treatment Facilities 6,000 gpm	SWS 201W-2, 4, 5 & 6 Whittier 13, 15, 16, 17 & 18	Complete 2002. Potable operations 2004-05	Monitor groundwater production, assist with data collection 2005-09

### AREA 3 OPERABLE UNIT

The Area 3 Operable Unit is located in the westerly portion of the Basin. It is generally bounded on the south by the 10 Freeway, on the east by Rosemead Boulevard, on the North by Huntington Drive and on the west by the boundary of the Main Basin (see figure 17). USEPA has installed five monitoring wells to collect water quality data to supplement data collected from water supply wells. USEPA has initiated a Remedial Investigation and Feasibility Study to identify the extent of the contamination and to evaluate appropriate cleanup remedies.

### PRODUCERS' WATER SUPPLY PLANS

Watermaster's Water Quality Protection Plan provides early warning to Producers in the event that wells are found to exceed drinking water quality standards. The Plan also contains pre-analyzed suggestions to the Producers for responding to the presence of contaminants.

Watermaster will continue providing the following services to assist Producers in meeting water demand

#### WATER SUPPLY PLANS TO MEET PROJECTED DEMANDS

Water Producers propose to construct 15 new wells, build 7 treatment plants, and reactivate three wells during the next five years. Watermaster will continue providing the following services to assist Producers in meeting water demand:

- investigate all new or increased water extractions;
- provide computer modeling and technical support on treatment issues concerning the impact of extractions on contaminant migration;
- prioritize areas requiring further investigation, and coordinate with Producers on water supply modifications; and
- direct changes in pumping or treatment as necessary.

### CONDUCT STUDIES, MONITORING AND INVESTIGATIONS

The Main San Gabriel Groundwater Basin is very complex, covering 167 square miles and holding about 2.8 trillion gallons of water. Water enters the Basin from countless natural and man-made locations, and is extracted from over 200 wells operated by dozens of independent Producers. Watermaster conducts special studies to identify projected water demands and to increase understanding of the Basin, so that it can be managed in a way that preserves and improves its water supply and quality.

### LANDFILL INSPECTIONS

Watermaster continues conducting on-site inspections of area landfills to ensure they are operated in a way that does not allow contaminants to seep into the groundwater.

## **IDENTIFY AND REDUCE POTENTIAL SOURCES OF CONTAMINATION**

### **COOPERATE WITH THE REGIONAL WATER QUALITY CONTROL BOARD**

Since 1993, Watermaster has obtained information from the Regional Water Quality Control Board (RWQCB) about sources of VOC contamination in the Basin that is collected as part of the RWQCB investigations of potential contaminated sites. The information includes a description of all potential sources of contamination investigated by the RWQCB, including:

- maps showing the location of all investigation sites;
- available cause-and-effect relationships between pollution sources and contaminated wells; and
- plans and tentative schedules to abate the source of pollution and to clean up the soil and water.

This information is used in Watermaster's Section 28 process to help evaluate changes in pumping practices in relation to known contamination sources.

Watermaster has reviewed a large amount of information gathered in RWQCB files and entered it into a database. Currently the information is being used to identify locations with shallow levels of MTBE contamination to determine if the contamination could spread into drinking water wells. Watermaster was able to identify potentially vulnerable wells, notify affected purveyors, and develop preventive measures.

## **AQUIFER PERFORMANCE TESTS**

Watermaster has developed a groundwater flow model for the entire Basin that assists in evaluating the potential impacts of changes in groundwater production.

Although Watermaster completed its three-year Aquifer Performance Test investigation, additional tests will be conducted as required for Section 28 applications or for other needs. The tests provide information on the characteristics of the aquifer, such as transmissivity, hydraulic conductivity, and coefficient of storage. The information gathered on aquifer characteristics will support cleanup activities, including groundwater model development and calibration. (See Appendix D.)

# DIRECTORY TO APPENDICES

The Following Appendices Are Found in This Section:

- A. Projected Groundwater Demands from 2004-05 to 2008-09
- B. Simulated Changes in Groundwater Elevations at Wells or Wellfields in Main San Gabriel Basin
- C. Highlights of Volatile Organic Compounds and Nitrate Concentrations and Wells Vulnerable to Contamination
- D. Potential Sites for Aquifer Performance Tests
- E. Schedule and Preliminary Budget for 2004-05 Five-Year Plan



**APPENDIX H**  
Resolution No. 6-03-552



8

## RESOLUTION NO. 6-03-552

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE VALLEY COUNTY WATER DISTRICT ESTABLISHING AND FIXING WATER RATES AND CHARGES FOR WATER SERVICE FROM THE DISTRICT, EFFECTIVE AUGUST 1, 2003 AND REPEALING RESOLUTION NO. 12-93-398.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE VALLEY COUNTY WATER DISTRICT THAT:

## Section 1 – Purpose:

(a) The fees and charges set forth herein are for the purpose of (1) meeting all of the District's operating expenses, including but not limited to; system maintenance, purchase of equipment, pump maintenance, vehicle maintenance facility maintenance, regulatory compliance, permitting compliance, staffing, replacement water costs, water treatment costs, material costs, administrative costs, and reserve fund needs and

(b) On the basis of 14 California Code of Regulations Section 15273 and local environmental guidelines, the District finds that the California Environmental Quality Act does not apply to the resolution or to the establishment, modification, structuring, restructuring or approval of the rates, fees, deposits, and other charges set forth herein.

## Section 2 – Application Fee:

The District shall require a non-refundable application fee of \$25.00 from anyone requesting service, including temporary water service.

## Section 3 – Service Charge &amp; Water Rates:

The following water service rates are hereby fixed and established as follows, except for temporary construction water:

METER SIZE	<u>--READY TO SERVE CHARGE--</u>		<u>--RATES PER 100 CU. FT. PER MONTH--</u>		
	MONTHLY	BIMONTHLY	FIRST 400 CU. FT. (BLOCK 1)	NEXT 1400 CU. FT. (BLOCK 2)	OVER 1800 CU. FT. (BLOCK 3)
3/4"	\$ 6.60	\$13.20	\$0.29	\$0.60	\$1.01
1"	10.56	21.12	\$0.29	\$0.60	\$1.01
1-1/2"	17.16	34.32	\$0.29	\$0.60	\$1.01
2"	26.40	52.80	\$0.29	\$0.60	\$1.01
3"	52.80	105.60	\$0.29	\$0.60	\$1.01
4"	75.13	150.26	\$0.29	\$0.60	\$1.01
6"	150.37	300.74	\$0.29	\$0.60	\$1.01
8"	214.94	429.88	\$0.29	\$0.60	\$1.01
10"	321.86	643.72	\$0.29	\$0.60	\$1.01



#### Section 4 – Returned Check Fee:

A return check fee of \$15.00 will be charged for checks returned as non-negotiable by the bank unpaid.

#### Section 5 - Delinquent & Reconnection Charges:

- (a) If a bill is not paid on or before the 15<sup>th</sup> day of the original billing date it will become delinquent.
- (b) If payment for a billing period is not made on or before the due date specified on the original bill, a Delinquent Notice will be issued allowing an additional eighteen (18) days for payment.
- (c) If no payment has been received in response to a Delinquent Notice at least forty-eight hours prior to the actual date of disconnection as set forth in the Delinquent Notice, the District will make a reasonable, good-faith effort to contact the customer by a Forty-Eight Hour Notice of disconnection at the service address. A Forty-Eight Hour Notice Charge of \$10.00 will be charged and added to the customer's bill.

(c) When service has been turned off due to non-payment it shall not be reconnected until all delinquent amounts have been paid in full, together with a reconnection fee of \$10.00 for payment made before 3:30 P.M. and a \$20.00 reconnection fee for payments made after 3:30 P.M.

#### Section 6 – Cut Lock & Tampering Fees:

Only authorized District personnel are permitted to operate service connection valves and work on the meters. Anyone who has tampered with District facilities shall pay the following charges based on the unauthorized use performed:

Cut Lock Fee	\$25.00 per occurrence
Meter Tampering	\$75.00 per occurrence

#### Section 7 – Unauthorized Usage Penalty:

Anyone found taking water from a fire hydrant or service connection without authorization from the District, shall be assessed a penalty of \$50.00 for the first offense, \$100.00 for the second offense and \$200.00 for each successive offense thereafter.

#### Section 8 - Construction Meter Charge:

(a) Where water is furnished through a fire hydrant meter on a temporary basis for construction purposes the applicant for such temporary water shall deposit with the District a sum of \$970.00. The deposit of \$970.00 shall be for the guarantee of payment for the delivery of water and to guarantee the return of the meter to the District by the applicant in an undamaged condition excluding normal wear and tear.

(b) The rates for temporary construction water furnished through a fire hydrant meter are hereby fixed and established as follows:



Ready to serve charge  
per week or portion  
thereof \$13.00.

Rate per 100 cu. ft.  
for water delivered  
\$1.69.

(c) If the applicant is not able to return the meter to the District for any reason the applicant shall immediately notify the District in writing and the District shall close the account. The District will estimate the amount of water delivered and charges, and determine the cost of replacing the meter. The \$970.00 deposit will be applied to the total cost for meter replacement and charges for water delivered including the ready to serve charge. Any remaining monies associated with the deposit will be refunded to such applicant. If the total amount due the District exceeds the deposit, the applicant shall pay the difference to the District. The closed account shall require a new application and deposit for additional temporary construction service.

Section 9 – Early Termination of Service Charge:

When regular water service is required for less than one month and service commenced and stopped within a period of 30 days, a surcharge of \$2.50 for such service commencement and termination shall be paid by such customer requesting the same, in addition to the regular minimum monthly charge and the charge for any water used.

Section 10 – New Service Connection Charges:

Applicants requesting new service connections to the District shall be charged the actual costs incurred by the as determined by the General Manager. All applicants will be required to deposit with the District, prior to any work beginning, the estimated costs to install the requested facilities, including engineering, permitting and any other fees required if applicable.

Section 11 – Deposits:

(a) When it has been determined by the District that the applicant or customer is not creditworthy or the customer's service is discontinued and the customer wishes to re-establish service, then the following minimum deposits shall be paid along with all other applicable fees:

Domestic Water Service

<u>METER SIZE</u>	<u>ADVANCE</u>
3/4"	\$ 58.00
1"	94.00
1-1/2"	130.00
2"	181.00
3"	360.00
4"	537.00
6"	1252.00

Fire Protection Service

DETECTOR CHECK	
<u>METER SIZE</u>	<u>ADVANCE</u>
4"	\$ 126.00
6"	251.00



8"	359.00
10"	537.00

(b) Deposits of record are applied to outstanding charges upon discontinuance of an account. Any remaining portion of a deposit shall be refunded to the customer.

(d) Deposits are refundable upon request, when a customer has established credit worthiness, as defined by District policy with the District.

Section 12 – Fire Protection Charges:

(a) The following rates and monthly minimum charges for Fire Protection purposes are hereby fixed and established:

<u>METER SIZE</u>	<u>MONTHLY MINIMUM READY TO SERVE CHARGE</u>
4"	\$ 57.00
6"	114.00
8"	163.00
10"	244.00

Section 13 – Fire Flow Charge:

The District will charge a fee of \$75.00 to conduct a Fire Flow test for anyone requesting this service. Along with the fee the applicant will also be required to fill out an Application with the District before any work is performed.

Section 14 – Failure of Meter to Register:

If a meter, other than a detector check meter, fails to register during any period, or is known to register inaccurately, the user shall be charged with the average consumption based on the customer's prior usage.

Section 15 – Meter Testing Deposit:

Any customer may demand that the meter through which water is being furnished be examined and tested by the District for the purpose of ascertaining the accuracy of the meter. Such demand shall be in writing and shall be accompanied by a deposit.

<u>METER TEST DEPOSIT</u>	
<u>METER SIZE</u>	<u>DEPOSIT</u>
3/4"	\$ 50.00
1"	50.00
1-1/2"	75.00
2"	75.00
3"	75.00
4"	75.00
6"	75.00



Section 16 - Wholesale Water Rate:

Subject to abiding by all the rules and regulations of the District, and providing that the applicant uses their own individual water rights to the Basin, and subject to abiding by the conditions for wholesale water as already established by the District in current Agreements, the District will provide water at a cost of \$102.00 per acre foot of water sold.

Section 17 - Effective Date of Resolution:

This Resolution is effective on all water bills prepared on or after August 1, 2003. Resolution No. 12-93-398 is hereby repealed.

Section 18 – Publication Requirements:

The District's Secretary shall cause a copy of this resolution to be published once in a newspaper of general circulation within the District.

PASSED, APPROVED AND ADOPTED this 11 day of June, 2003.

\_\_\_\_\_  
President

ATTEST:

\_\_\_\_\_  
Secretary



**APPENDIX I**  
Ordinance No.4-91-120



ORDINANCE 4-91-120

AN ORDINANCE OF THE BOARD OF DIRECTORS OF THE  
VALLEY COUNTY WATER DISTRICT DECLARING A  
WATER SHORTAGE AND ADOPTING MANDATORY  
WATER CONSERVATION REGULATIONS AND RESTRICTIONS

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF VALLEY  
COUNTY WATER DISTRICT as follows:

Section 1. Purpose and Scope

This Water Conservation Ordinance (hereinafter "Ordinance") is established for the purpose of reducing the waste of water and encouraging water conservation to insure that available supplies will be adequate to meet the needs of Valley County Water District (hereinafter "District") customers.

Section 2. Goals

By this Ordinance, the District intends to provide a vehicle to protect public health and safety by significantly and equitably reducing as necessary the consumption of potable water over an extended period of time to meet regional needs for mandatory water conservation. Also, to encourage the overall reduction in water consumption through conservation by altering the methods and ways that water is used for non-consumption purposes.

Section 3. Findings

The Board does hereby find, determine and declare, as follows:

- a. The District obtains some of the potable water needed to service its customers from the Metropolitan Water District of Southern California (hereinafter "MWD") through the Upper San Gabriel Valley Municipal Water District (hereinafter "Upper District"). Upper District delivered 4,736 acre feet (hereinafter "AF") of potable water to the District in 1990.
- b. MWD implemented Stage VI of their water conservation plan thereby reducing their total deliveries by 50% commencing April 1, 1991 due to a water shortage caused by the drought which is affecting most of the State of California. As a result, the supply of MWD water available in 1991 to the District for distribution to customers will be reduced by 3,064 AF or approximately 70%.
- c. The District also obtains potable water from the Main San Gabriel Basin (hereinafter "Basin") to serve District customers. The water levels in the Basin are at a historical low. The Main San Gabriel Basin Watermaster



ORDINANCE 4-91-120

(hereinafter "Watermaster") is responsible for purchasing imported water from MWD through Upper District to replenish the Basin.

d. The regulations and restrictions set forth herein will not produce any significantly adverse environmental impacts as disclosed by environmental documents prepared and distributed as required by law. A negative declaration covering the adoption of the regulations and restrictions described below was adopted March 12, 1991.

e. These regulations and restrictions are adopted pursuant to the authority of Water Code Section 350 et seq.

Section 4. Water Allotment

a. The purpose of this Ordinance is to reduce the amount of potable water consumed by District customers to meet regional water conservation requirements. Currently this reduction is 70% of the District's MWD purchases or 37.5% of the total District supply or approximately 3,064 AF. To this end, the amount of water to be delivered to each customer shall be allotted as set forth in this section.

b. Customers shall reduce their monthly water usage for the same time period as compared to the base year of 1989. To achieve the 37.5% overall District reduction in water consumption the initial reduction shall be 34% of all water usage above a base amount of 4 hundred cubic feet (hereinafter "CCF") per month. Required conservation levels and base monthly usage may be changed by resolution of the Board of Directors as necessary to meet regional water conservation goals and requirements.

Section 5. Use Restrictions

a. With respect to irrigation practices:

(1) Lawn watering and landscape irrigation with potable water is permitted only between the hours of 6 p.m. and 9 a.m.

(2) Watering is permitted at any time if a hand-held hose equipped with a positive shut-off nozzle is used, a hand-held faucet-filled bucket of five gallons or less is used, or a drip irrigation system is used.

(3) No customers shall cause or allow the water to run off landscape areas into adjoining streets, sidewalks or other paved areas due to incorrectly directed or maintained sprinklers or excessive watering.

b. With respect to exterior washing practices:

(1) Washing of buildings, facilities, equipment, autos, trucks, trailers, boats, airplanes and other types of mobile equipment is prohibited except where a hand-held hose equipped with a positive shut-off nozzle for quick rinses is



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used. Whenever possible, such as when washing vehicles, a bucket wash is encouraged.

(2) Washings are exempted from these regulations where the health, safety and welfare of the public is contingent upon frequent washing of vehicle or other facility and equipment cleaning, such as garbage trucks and vehicles used to transport food and perishables.

(3) Water shall not be used to wash down hard surfaces such as sidewalks, driveways, parking areas, tennis courts, patios, or other paved areas, except to alleviate immediate fire, sanitation or health hazards.

c. With respect to ornamental or recreational uses:

(1) Draining and refilling swimming pools and spas is prohibited. Adding make up water to swimming pools and spas is permitted but only within monthly allocation limits.

(2) Filling/refilling of decorative ponds, fountains, and artificial lakes is prohibited.

d. With respect to other uses:

(1) Water from fire hydrants shall be used only for fire fighting and public welfare activities.

(2) Flushing of water mains will not be permitted except as necessary to protect the public health.

(3) Restaurants shall not serve water to their customers unless specifically requested.

e. Leaks must be repaired as soon as discovered and shall not be allowed to continue for more than 72 hours.

f. With respect to new services:

(1) No water shall be provided from a new water service installed after the effective date of this Ordinance unless the plumbing fixtures connected to the new water service are ultra low volume water use fixtures.

#### Section 6. Penalties

a. Violation of this Ordinance is punishable by rate surcharges for excessive water usage or administrative fee for service termination and flow restriction for violation of Section 5, Use Restriction.

b. A written notice shall also be given to each customer upon initial violation of this Ordinance. The notice shall also be given to the person who applied for the water service at the billing address and shall warn the customer of the consequences to the community and to the customer of the violation and the rate surcharges and advise the customer of the opportunity to request administrative review as set forth herein.

c. A customer who exceeds their water allotment shall pay a rate surcharge of \$0.95 per CCF for all water delivered in excess of their allotment. This rate surcharge may be



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adjusted by resolution of the Board of Directors to reflect current charges to District for not meeting regional water conservation requirements.

d. The District may terminate service or install a flow restricting device at a customers meter for any customer who exceeds their water allotment more than twice or violates Section 4, Use Restrictions, more than twice during an emergency water conservation period. A fee equal to the current District fee for processing a meter turnoff will be applied to the customers account. The termination of service or service flow restrictor shall be enforced for a minimum of 24 hours for the first violation increasing 24 hours for each subsequent violation of this Ordinance.

e. Rate surcharge and administrative payments may be used by the District to reduce the cost of water served, provide incentives for water conservation, fund penalties assessed against the District and to administer this Ordinance.

Section 7. Administrative Review

a. The District recognizes that the enforcement of this Ordinance will impose inconvenience upon all customers and desires that hardships shall be mitigated whenever feasible. Customers shall be afforded the opportunity to contest findings, correct errors and alleviate unusual and extraordinary hardships. The administrative review process set forth in this section is adopted to further these goals.

b. Any person aggrieved by the provision and appealing this Ordinance must appeal in writing within fourteen (14) days of the mailing or other delivery of the notice of violation. The General Manager, or his appointed designee, may grant relief to residential customers to reflect extraordinary water needs, such as: irrigation of new plantings, first filling of a swimming pool, abatement of health or safety hazards. The General Manager may grant relief to commercial or industrial customers to reflect changes in circumstance which have occurred subsequent to the base period, such as: subsequently planted landscaping, increased number of employees, production of new products which require increased process water, or unemployment from additional reduction in water consumption. The General Manager may grant relief whenever necessary to protect the public health, welfare or safety of the community. No relief shall be granted unless the customer demonstrates maximum practical water reduction, including use of ultra-flow plumbing fixtures or fails to provide any information necessary for resolution of the water user's application for relief. The General Manager shall issue a written decision



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as soon as practical but in no event later than fourteen (14) days after the customer files a written request for administrative review.

c. A customer who is not satisfied with the decision of the General Manager may appeal the decision to the Board of Directors. The decision of the Board of Directors shall be made within thirty (30) days of the appeal and is final.

Section 8. Reports and Recommendations

The General Manager shall report on compliance with this Ordinance in light of future water supply conditions. The General Manager shall also report on the experience of the appeals being processed by the District. The reports shall be submitted to the Board monthly commencing July 1, 1991.

Section 9. Effective Date

This Ordinance is effective with the customers first billing period beginning on or after May 15, 1991 and rendered on bills beginning on or after June 15, 1991 for one month bills and July 15, 1991 for two month bills.

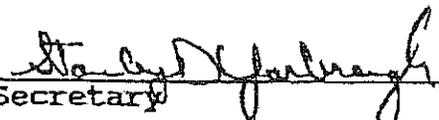
Section 10. Duration

These regulations and restrictions shall be effective so long as any mandatory regional water conservation is in effect. During such times as there are no mandatory water conservation requirements only Sections 5.a.(3), 5.e and 5.f of this Ordinance shall be effective unless suspended by resolution of the Board of Directors. The Board of Directors, by resolution, may suspend any and all sections of this Ordinance at any time.

PASSED, APPROVED AND ADOPTED APRIL 9, 1991,

  
\_\_\_\_\_  
President

ATTEST:

  
\_\_\_\_\_  
Secretary

(SEAL)



**APPENDIX J**  
July 2005 Water Master Plan Update



# **Update of Water System Master Plan**

**Prepared for**

**Valley County Water District**

**July 2005**

**Prepared by**

**Laurent McReynolds**

**Gateway Science and Engineering Inc.**

**300 N. Lake Ave  
Pasadena Ca 91101  
(626) 696-1600**



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## PREFACE

### Summary

1. The loss of six Valley County Water District (District) wells from groundwater contamination has reduced the reliability of the District's supply making it highly dependent upon the Metropolitan Water District (MWD) to provide back-up in case of equipment failures or additional groundwater contamination.
2. The District is not in danger of being unable to supply its demands because it can purchase water from MWD if unforeseen problems occur. However, mixing MWD water with the District's groundwater causes problems because of the corrosiveness of MWD water and the incompatibility of the disinfectants used by the two agencies. Much of the District's water distribution system is unlined steel pipe that is very subject to corrosion and red water problems.
3. The addition of GAC filtration has reduced the capacity of the District's four remaining wells.
4. The District may be experiencing low water pressures in the Southern parts of its service area during periods of high demands. The loss of the wells that previously supplemented this part of the service area has required the transfer of water long distances, resulting in large pressure losses during peak demand periods.
5. The District needs more well and booster pump capacity to supply high peak demands and allow for pump outages.
6. The District has limited reserve reservoir storage to allow it time to respond to equipment outages and power failures.
7. The District needs facilities to monitor pressure in its distribution system to better understand how well it is serving its customers. Pressure data from the distribution system would allow the District to optimize the operation of the system.
8. The District needs to determine, by field testing, the current capacity of its booster pumps.
9. The District needs to monitor water pressure in the Lower Baldwin Park Zone during periods of peak summer consumption.



## Recommendations

### Improvements Needed Within 5 Years

1. An additional 4,000 to 6,000 gpm of pump capacity supplying the Upper Baldwin Park Zone, and three new VFD pumps supplying this zone. Replacement of the old natural gas engine powered pump at the Nixon Pump Station with an electric powered pump and a diesel powered emergency generator.
2. Construction of a supply pipeline to connect the reservoirs at the Nixon and Maine sites to allow maximum utilization of these wells, pump stations and reservoirs.
3. Installation of VFD pumps at Paddy Lane to allow the storage in Paddy Lane Reservoir to be utilized to reduce peak transfers from the Upper Baldwin Park Zone. This would improve distribution system pressures during periods of peak demand.
4. Distribution system modifications to change the supply for about 90 acres from the Upper Baldwin Park Zone to the Morada Zone. This modification will improve pressure to this area and reduce peak demands on the Nixon and Maine Pump Stations.
5. Increased well capacity to supply peak demands and allow for pump outages. It appears that it may be feasible to obtain an additional 1500 gpm by changing the pumps of the Maine West Well and the Nixon West Well since the existing pumps are utilizing only about 70% of the capacity of the motors.
6. A SCADA system to provide better control and faster response to equipment outages. The SCADA system should include remote monitoring of distribution system pressures so operators can monitor the pressures customers are receiving.
7. Construction of an additional 4- to 6-million gallons of reservoir storage to improve the reliability of the District's supply and to supply anticipated growth.
8. Installation of treatment on the Big Dalton well and reactivation of the well to reduce peak transfers from the Upper Baldwin Park Zone and improve distribution system pressures.



### Improvements Needed Within 10 years

1. Construction of one million gallons of additional reservoir storage and pump station near the border between the Upper and Lower Baldwin Park Zones or within the Lower Zone
2. Distribution system improvements to increase the capacity to transfer water from the pump stations at Nixon and Maine to the Lower Baldwin Park Zone.



## INTRODUCTION

### Purpose

In 1999 Valley County Water District (District) had a master plan prepared by CIVILTEC Engineering. The master plan recommended a number of capital improvements be made to compensate for the loss of wells due to groundwater contamination, and to insure adequate system capabilities to meet expected increases in water demands. This report updates the 1999 Water System Master Plan to account for changes that have occurred in demands, supply, and operations and the effect of these changes on the need to construct new facilities.

The District's Master Plan recommended two phases of improvements; phase 1 considered to be a five-year capital improvement plan, and phase 2 considered to be a ten-year capital improvement plan.

### Background

Groundwater wells have historically provided the District with an economical and dependable water supply. Wells, located throughout the service area, allowed the District to minimize expenditures for water transmission mains and water storage facilities. The groundwater basin acted as both a water reservoir and water distribution system.

With the discovery of industrial contamination of the San Gabriel Groundwater Basin in 1979, these features were lost. The dependability of wells has become tenuous. All of the ten wells the District utilized in 1979 have shown various industrial contaminants. Treatment facilities to remove the contaminants have been installed on four of the District's wells. These four wells are now the District's primary water supply. This has reduced the reliability of the District's supply and strained the distribution system. The reliability of the supply is reduced because the treatment may fail or because newly discovered contaminants may render the current treatment inadequate. The distribution system is strained because all the remaining active wells are located at the northwest edge of the service area and water must be supplied about three miles to the south end of the service area. This creates large pressure losses during peak demand periods.

Groundwater contamination has made the District heavily dependent upon the Metropolitan Water District (MWD) for back-up supplies. In the spring of 2003 when the District's remaining four uncontaminated wells began showing contamination, the District was completely dependent upon MWD for all its water supply for several months. Taking a large amount of MWD water caused dirty and red water complaints because of flow reversals in the distribution system and because the water from MWD is more corrosive. Before



groundwater contamination occurred, the District had enough well capacity to allow for outages caused by equipment failures and distribution system outages. Today, because the groundwater must be treated to remove contamination and uncertainty about what contaminants may be found, the District's well waters are less reliable.

While the interconnections between the District and its neighboring water agencies are valuable to meet unusual emergencies and to purchase surplus water, they cannot be relied upon to supply peak summer demands. These interconnections increase the chances that the District can deal with unforeseen emergencies but they cannot be relied upon to supply water to meet peak summer demands. Each water agency builds facilities to supply its customers' needs. Water Agencies do not construct facilities to supply another agency's customers.



## **WATER DEMAND**

### **District's Population Growth**

The District's 1999 Water System Master Plan estimated that about 93% of the population supplied by the District live in the city of Baldwin Park, which consumes about 83% of the water. Between January 1998 and January 2005, using California Department of Finance population estimates, the City of Baldwin Park has grown by 8.2%. This is a growth rate of 1.2% per year. This is slightly higher than the 1% per year assumed in the Master Plan for the period from 1998 to 2007.

### **Maximum-Day Demands**

The highest water demand the District has experienced was 18.1 MGD in July of 2003. This demand, which was 22% above the previous maximum day demand, occurred when the District was getting all its water from its MWD connection. The District's distribution system pressures are much higher when operating in this mode and the District was encountering extensive red water problems caused by corrosion. The increased pressure and the flushing needed to reduce the red water may account for much of this increase in demand. Using the growth in population to project the increase in historical max-day demands, the estimated max-day demand for 2005 would be about 17 MGD. Table 1 (Valley County Water Demand, Pg. 9-A) and Chart 1 (Average Annual and Max-Day Water Demands, Pg. 9-B) show the mean annual and maximum-day water consumption and peaking factors for the District for the years 1974 through 2004.

There has been a sharp reduction in the maximum-day/mean-annual water demand peaking factor, as shown on Chart 2 (Water Demand Peaking Factors, Pg. 9-C). The water pressure in the District's distribution system may be falling enough that water usage during peak demand periods is being curtailed. This is indicated by the growth in mean annual consumption with little growth in the maximum day demands.

### **Peak-Hour Demands**

The District's 2005 peak-hour demands, based upon long term water use and ignoring the 2003 water use, are estimated to be 24,300 gpm, of which 2,100 gpm is in the Morada Zone. The peak-hour consumption in 2003 when the District was taking all its supply from MWD is estimated to have been 25,800 gpm. Although this high consumption in 2003 appears to be an anomaly, the District should be prepared for higher consumption.

The Morada Zone has adequate pump capacity to supply this zone and to supply future growth in this zone but the excess pump capacity in the Morada



Zone cannot be utilized to supply the Upper and Lower Baldwin Park Zones. The estimated demands of the Upper and Lower Baldwin Park Zones are 22,200 gpm. The peak-hour and maximum-day demands may occur only every five or ten years because they are caused by unusual extended Santa Ana hot spells. Annual demands will usually show a more gradual increase with growth; however, rainfall and temperatures also heavily affect them.



Valley County Water Demand

Table 1

Year	Water Demand		Peak-factor
	Average Annual	Max-day	Max-Day/Annual
	MGD	MGD	
1974	5.37	11.59	2.16
75	5.12	9.67	1.89
76	5.62	11.84	2.11
77	5.18	10.39	2.01
78	4.85	9.45	1.95
79	5.52	11.67	2.11
1980	5.58	11.06	1.98
81	6.13	13.24	2.16
82	6.22	12.27	1.97
83	5.92	11.6	1.96
84	6.89	12.92	1.88
85	7.17	12.5	1.74
86	7.09	13.85	1.95
87	7.59	13.13	1.73
88	7.82	11.56	1.48
89	8.5	13.47	1.58
1990	9.27	14.8	1.60
91	7.57	9.98	1.32
92	7.03	10.75	1.53
93	6.91	10.56	1.53
94	7.7	11.7	1.52
95	7.66	12.17	1.59
96	8.38	13.42	1.60
97	8.5	14.76	1.74
98	7.7	12.73	1.65
99			
2000	9.3	13.91	1.50
1	9.8	12.35	1.26
2	8.7	13.31	1.53
3	10.5	18.14	1.73
4	8.68	12.46	1.44



### Average Annual and Max-Day Water Demands

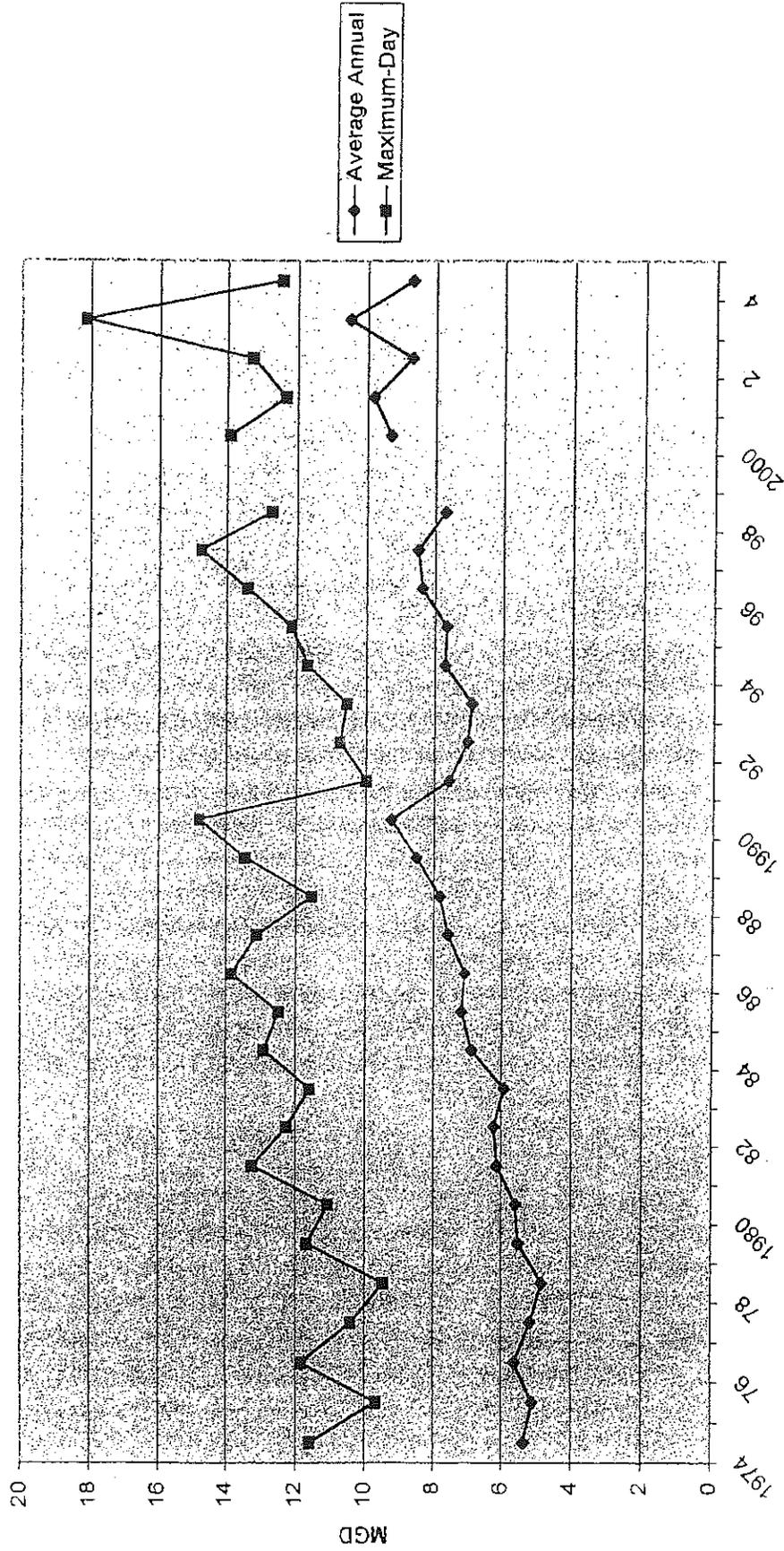


Chart 1  
page 9-B



# Water Demand Peaking Factors

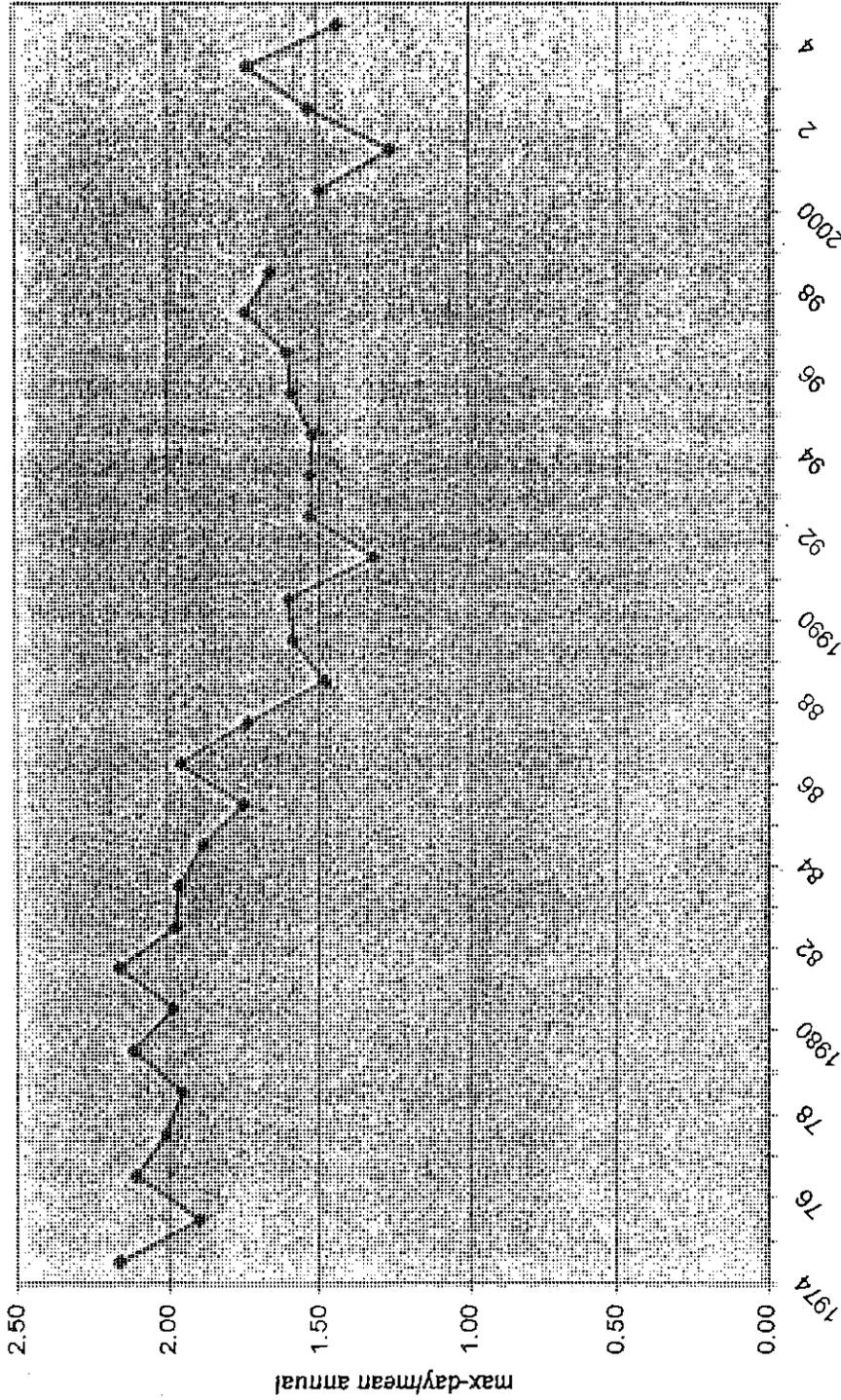


Chart 2  
page 9-C



## WATER SUPPLY

### Maximum-Day Supply

The District's maximum-day supply has been severely curtailed by the loss of wells and the addition of treatment to the remaining wells. The District's remaining supplies are its four wells at Nixon and Maine plus water from the Lante Treatment Plant and its connections to Covina Irrigation Company and MWD. The District cannot count on obtaining water through its interconnection with neighboring water agencies because during peaks they have no commitment to provide water and probably will not have excess water available. The District does not want to rely upon MWD to supply peak demands because of (1) the high cost of MWD water and (2) operational problems caused by taking MWD water.

Table 2 (District's Maximum-Day Supply and Demand, below) shows the supplies, not including the MWD connection, that the District can rely upon to supply maximum-day demands. This supply is not adequate to meet the expected maximum-day demand. The District has a shortfall of 950 gpm when all of its facilities are operating. The District would have a shortfall in supply of 3000 to 4000 gpm if it lost one of its large wells during a peak period. Although the District could utilize its MWD connection to deal with this type of shortfall, MWD's capacity charge would be costly.

### District's Maximum-Day Supply and Demand

Table 2

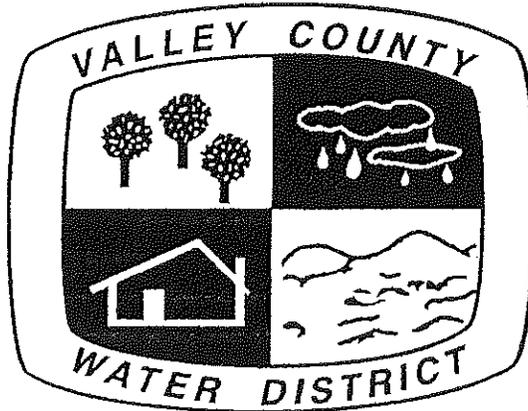
<u>Source</u>	<u>Supply Available</u>		<u>Maximum-Day Demand</u>	
	<u>GPM</u>	<u>MGD</u>	<u>GPM</u>	<u>MGD</u>
Nixon West	2600	3.74		
Nixon East	2800	4.03		
Maine West	1500	2.16		
Maine East	2450	3.53		
Lante Treatment Plant	1,000	1.44		
Covina Irrigation Co.	500	0.72		
Totals	10,850	15.62	11,800	17



**APPENDIX K**  
Emergency Response Plan



# EMERGENCY PREPAREDNESS PLAN



## Board of Directors

Alfonso Contreras - President  
B. Estela Rubio - Vice President  
Dolores M. Holguin - Director  
Mariana Lake - Director  
Larry A. Walton, Sr. - Director

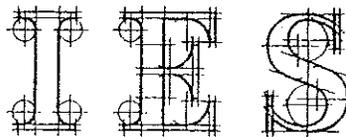
## Interim General Manager

Barbara Ware

**Adopted Date:** March 8, 1999

**Resolution No.:** 3-99-468

Prepared by:



Integrated Engineering Solutions, Inc.



**VALLEY COUNTY WATER DISTRICT**

**EMERGENCY PREPAREDNESS PLAN**

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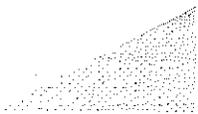
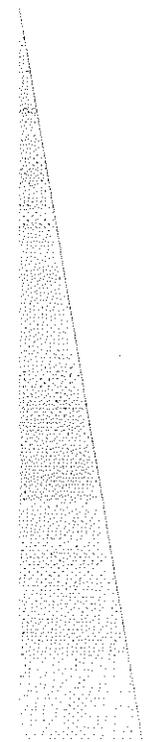
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# 2005 UWMP Log form

Water Supplier: Valley County Water District  
 Address: 14521 Ramona Blvd Baldwin Park, CA 91706  
 Contact: Tom Mortenson Title \_\_\_\_\_ Phone: (626) 962-1915  
 Fax: \_\_\_\_\_ e-mail: TMORTENSON@VCWONET.COM Web: WWW.VCWONET.COM  
 Consultant Contact Name: Kevin R. Smead / Stetson Engers Phone: (626) 967-6202  
 Fax: \_\_\_\_\_ e-mail: SRA@STETSONENGINEERS.COM Web: STETSONENGINEERS.COM  
 Originally Received at (Circle) HQ District Date & Time Rec'd: 06/12/06

Number of copies received: Hard Copies 1 Electronic Copies 2  
 If not required #, date of request for add'l copies: \_\_\_\_\_ by (initials) \_\_\_\_\_  
 Date additional copies received: \_\_\_\_\_ by (initials) \_\_\_\_\_

Adoption Resolution included? (circle) YES NO Date Adopted: 05/16/06  
 If not, date Supplier contacted to send: \_\_\_\_\_ by \_\_\_\_\_  
 Date Adoption Resolution received: \_\_\_\_\_ by \_\_\_\_\_

District responsible for review (circle)	<u>NORTHERN</u>	CENTRAL	SAN JOAQUIN	<u>SOUTHERN</u>
Date one copy of Plan sent to District for Review:	<u>5/12/06</u>			by <u>OW</u>
Date to check status of review (+ ten days)	<u>1/1</u>			by _____
DPLA "Contacts" website info updated:	<u>1/1</u>			by _____
Logged into UWMP Database Log:	<u>6/12/06</u>			by <u>OW</u>
UWMP receipt confirmation e-mail sent:	<u>6/12/06</u>			by <u>OW</u>

Date add'l info rec'd \_\_\_\_\_ Entitled: \_\_\_\_\_ Logged: \_\_\_\_\_ Confirming e-mail: \_\_\_\_\_  
 Date add'l info rec'd: \_\_\_\_\_ Entitled: \_\_\_\_\_ Logged: \_\_\_\_\_ Confirming e-mail: \_\_\_\_\_

INITIALS OF THE REVIEWER: \_\_\_\_\_  
 Date two copies of plan sent to HQ \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Date review of plan began \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 CUWCC signatory: Yes \_\_\_\_\_ No \_\_\_\_\_  
 CUWCC signatory submitted BMP report: Yes \_\_\_\_\_ No \_\_\_\_\_  
 Date review of plan completed: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Date review of plan e-mailed to HQ: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Date review entered into database: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Date DRAFT Review Letter sent to District for review: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Date comments or Approval of Draft received: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Date Review/Letter sent to Water Supplier: 1/1 Logged in DB: \_\_\_\_\_

Date DRAFT Review Letter sent to District for review: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
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Date FINAL Review Letter sent to District for review: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Date comments or Approval of Draft received: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 Date FINAL Review Letter sent to Water Supplier: 1/1 Logged in DB: \_\_\_\_\_





861 Village Oaks Drive, Suite 100 • Covina, California 91724 • (626) 967-6202  
FAX: (626) 331-7065 • email: wc@stetsonengineers.com

2171 E. Francisco Blvd., Suite K • San Rafael, California 94901 • (415) 457-0701  
FAX: (415) 457-1638 • email: sr@stetsonengineers.com

2659 W. Guadalupe Rd., Suite D213 • Mesa, Arizona 85202 • (480) 839-5910  
FAX: (480) 839-6560



1698.02

June 7, 2006

Reply to:

Covina

Mr. David Todd  
Office of Water Use Efficiency and Transfers  
Department of Water Resources  
901 P Street, 3<sup>rd</sup> Floor  
Sacramento, California 95814

Subject: Valley County Water District  
2005 Urban Water Management Plan

Dear Mr. Todd:

We are pleased to provide you with a copy of the Valley County Water District (VCWD) 2005 Urban Water Management Plan in accordance with Section 10644 of the California Water Code for deposit in the State Library. As part of the Urban Water Management Plan process, VCWD took the following actions:

- Notified cities, the county of Los Angeles and local water purveyors within its service area of the preparation of its 2005 Urban Water Management Plan Update and encouraged participation and the submittal of comments
- Gave notice of its public hearing according to Section 6066 of the Government Code and made the plan available to the public for review prior to holding a public hearing on May 16, 2006
- Adopted the draft Urban Water Management Plan as its 2005 Urban Water Management Plan at its May 16, 2006 meeting
- Submitted its Urban Water Management Plan to all cities, the county of Los Angeles and local water purveyors within its service area

Please feel free to contact Mr. Tom Mortenson of Valley County Water District by phone (626) 962-1915 or by email at [TMortenson@vcwdnet.com](mailto:TMortenson@vcwdnet.com) and you can also contact me at (626) 967-6202 should you have any questions.

Sincerely,

Kevin R. Smead, P.E.  
Stetson Engineers Inc.

cc: Mr. Tom Mortenson, Valley County Water District, w/o enclosure



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