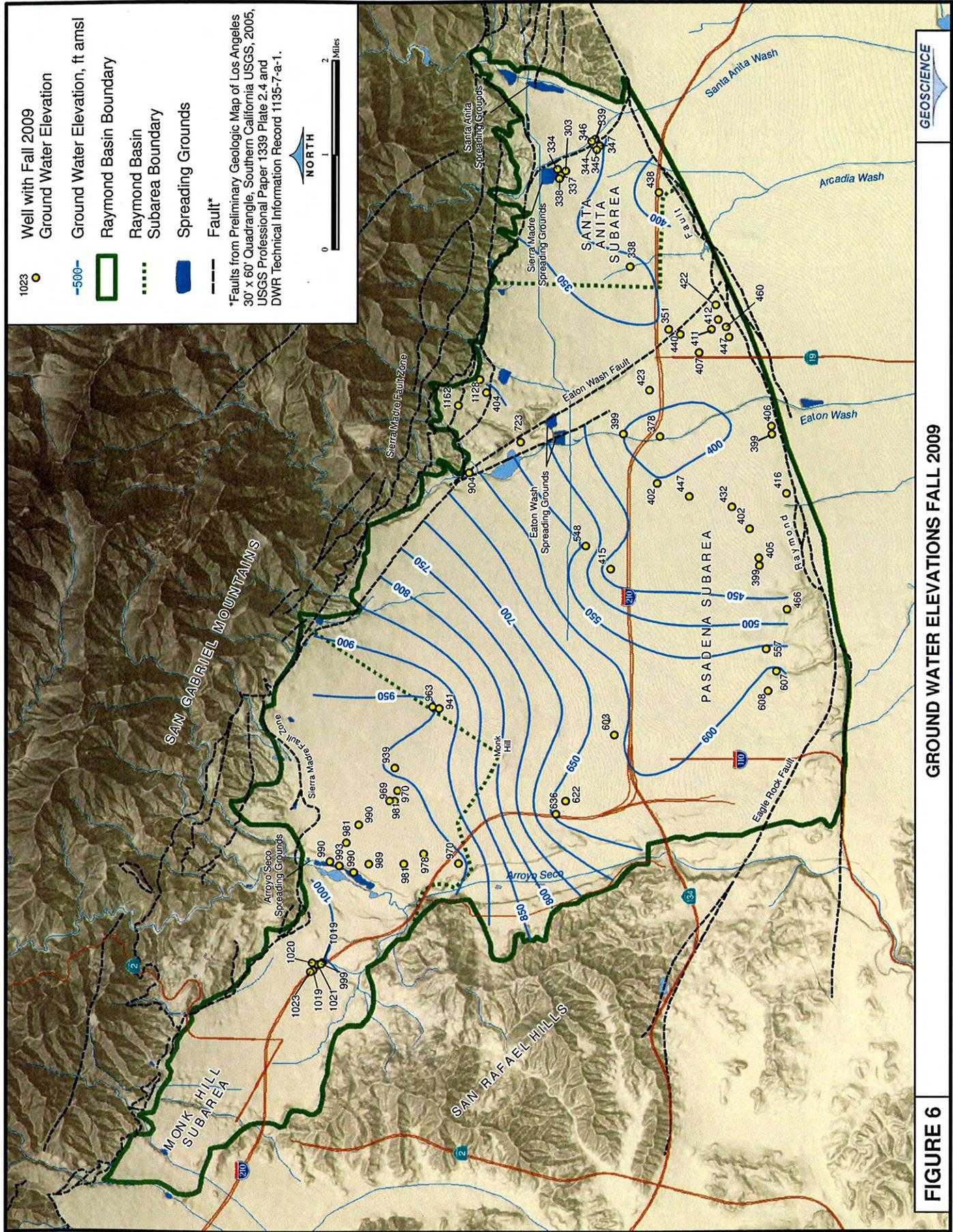


APPENDIX I

RAYMOND BASIN GROUNDWATER ELEVATION MAPS



GROUND WATER ELEVATIONS FALL 2009

FIGURE 6

- 1023 ● Well with Fall 2009
- 500- Ground Water Elevation
- Ground Water Elevation
- Raymond Basin Boundary
- Raymond Basin Subarea Boundary
- Spreading Grounds
- Fault*

*Faults from Preliminary Geologic Map of Los Angeles 30' x 60' Quadrangle, Southern California USGS, 2005, USGS Professional Paper 1339 Plate 2.4 and DWR Technical Information Record 1135-7-a-1.

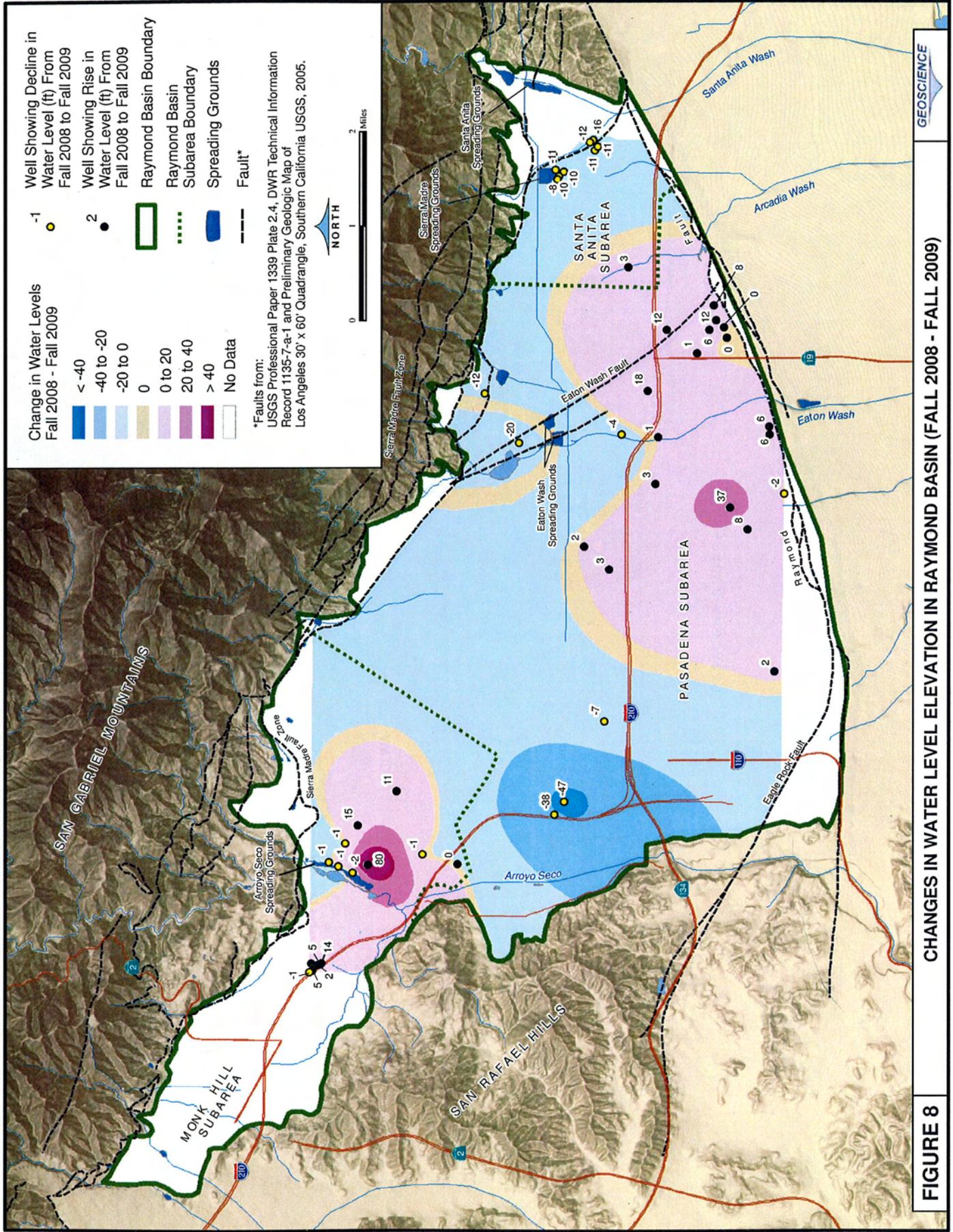


APPENDIX J

RAYMOND BASIN GROUNDWATER ELEVATION CHANGES

TABLE 8. GROUNDWATER LEVEL ELEVATIONS AT REPRESENTATIVE WELLS
(feet)

Subarea	Owner Key Well Name	Groundwater Level Elevations in feet above sea level			
		October 2008	April 2009	October 2009	April 2010
<u>Monk Hill</u>	City of Pasadena Sheldon	970	976	970	981
<u>Pasadena</u>	City of Pasadena Copelin 3	674	636	636	670
West Central	Kinneloa Irrigation District Wilcox	403	406	404	409
Northeast	Cal-American Water Company Winston	nm	403	432	407
East Central	City of Alhambra No. 2	558	438	607	566
South Central	East Pasadena Water Company Well No. 7	395	413	411	419
Southeast	City of Arcadia Orange Grove No. 1A	358	359	347	367
<u>Santa Anita</u>					
nm: no measurement					



CHANGES IN WATER LEVEL ELEVATION IN RAYMOND BASIN (FALL 2008 - FALL 2009)

FIGURE 8

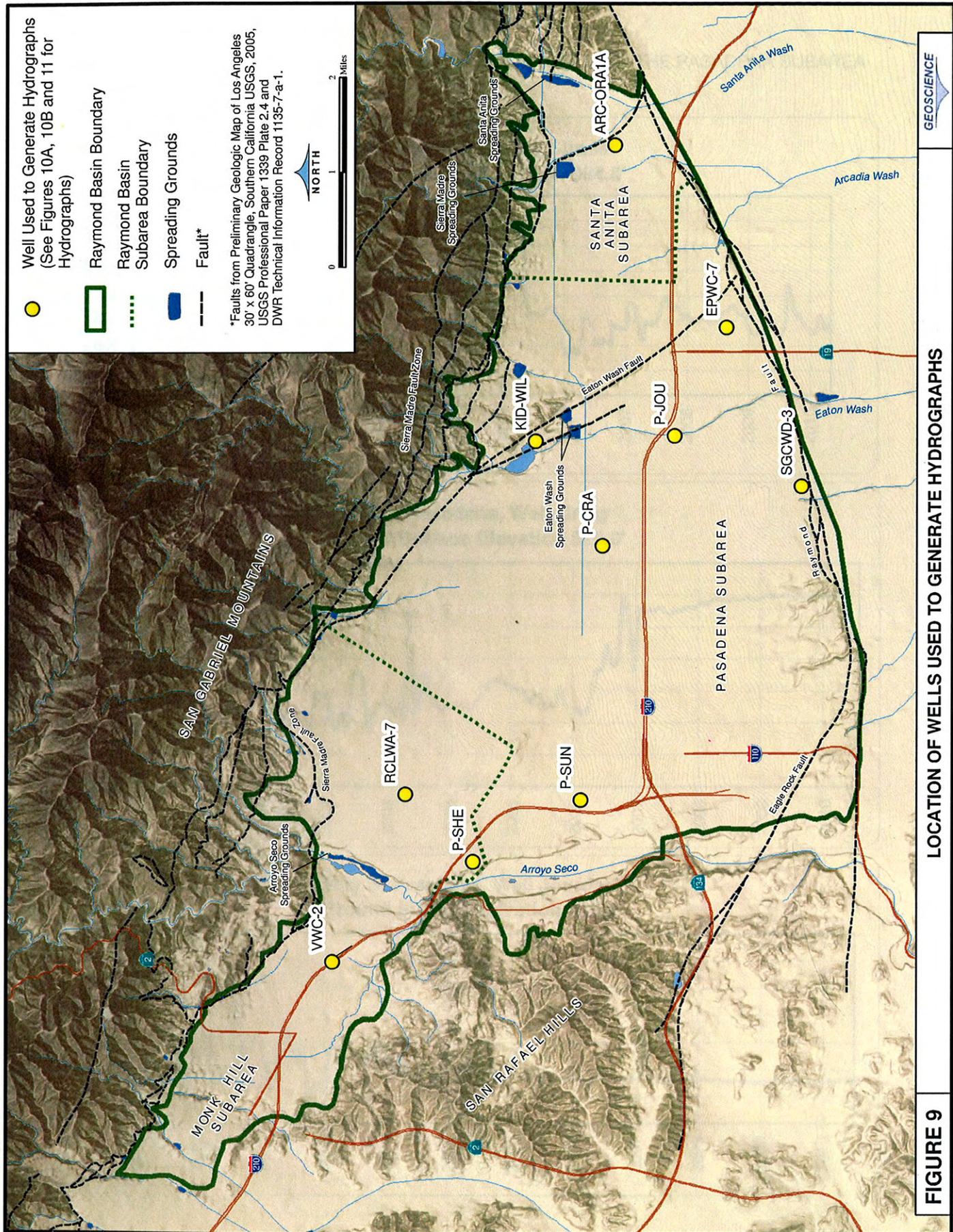


FIGURE 9

LOCATION OF WELLS USED TO GENERATE HYDROGRAPHS

FIGURE 10a - FLUCTUATION OF WATER LEVELS AT WELLS IN THE PASADENA SUBAREA

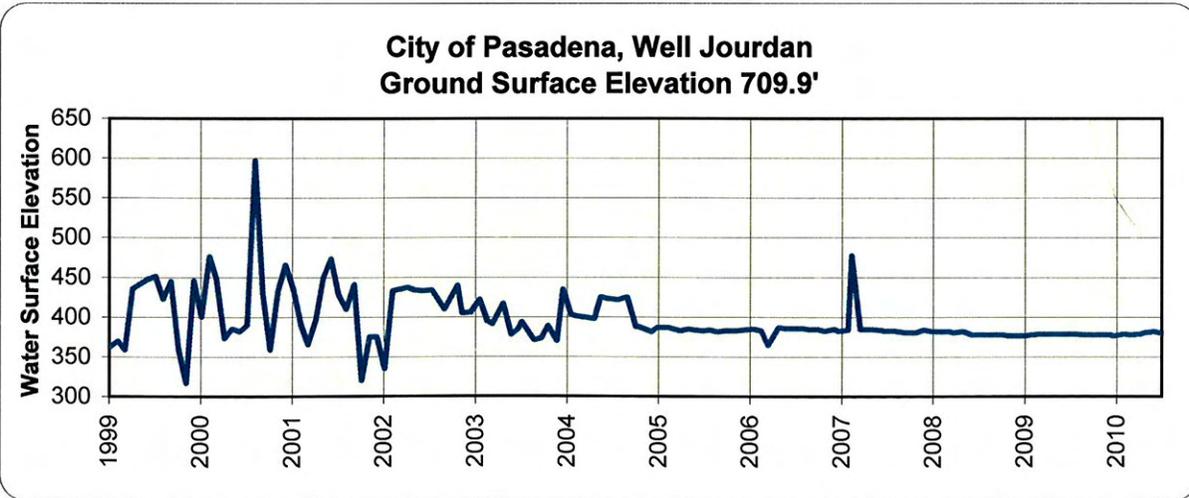
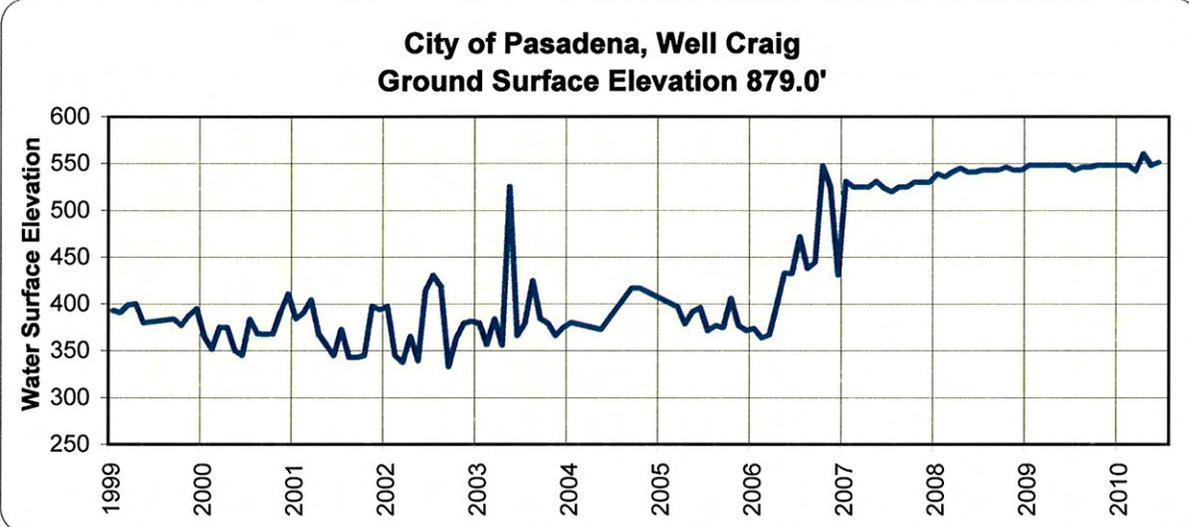
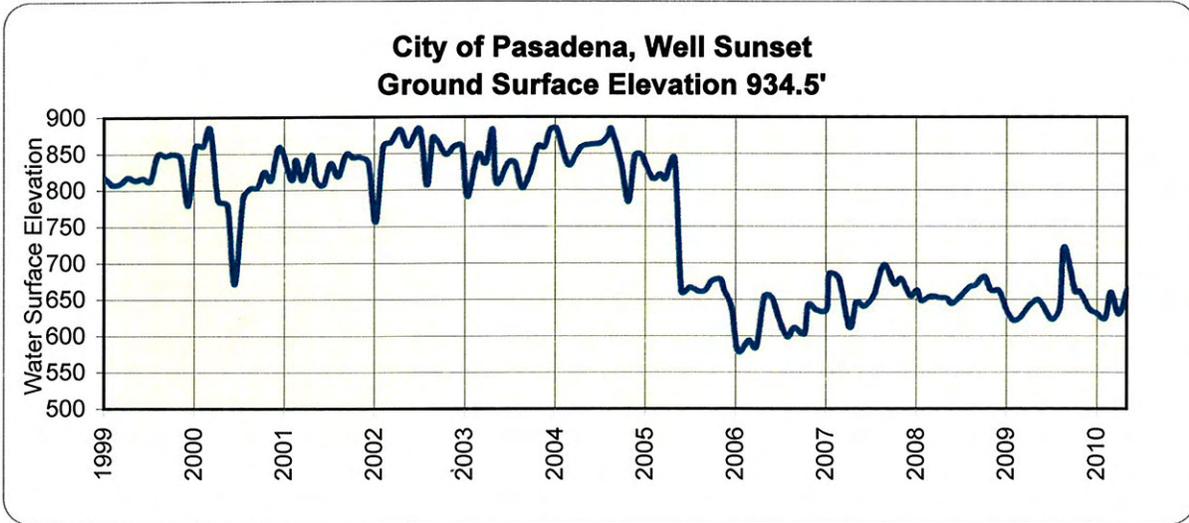


FIGURE 10b - FLUCTUATION OF WATER LEVELS AT WELLS IN THE PASADENA SUBAREA

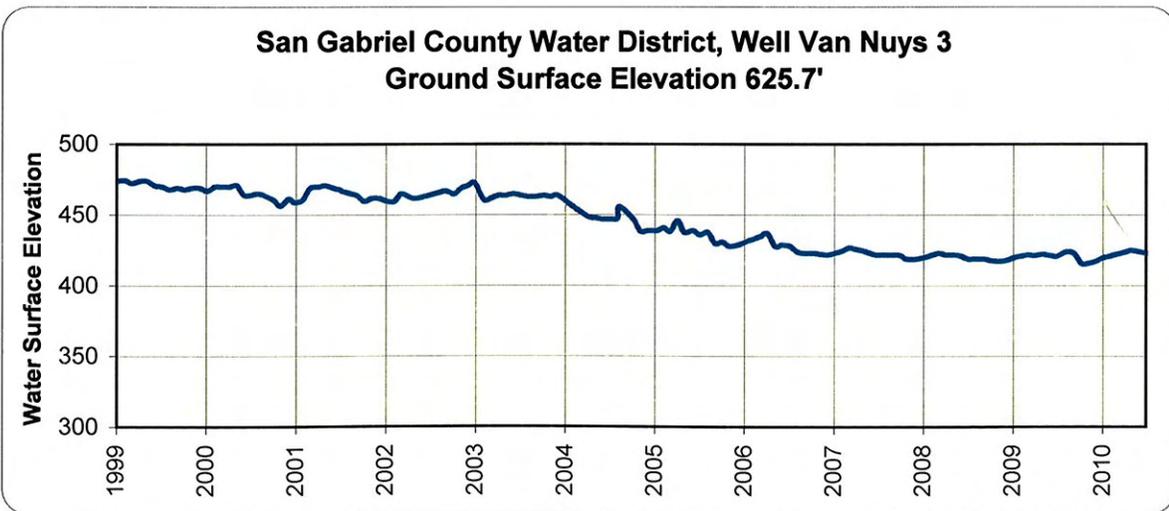
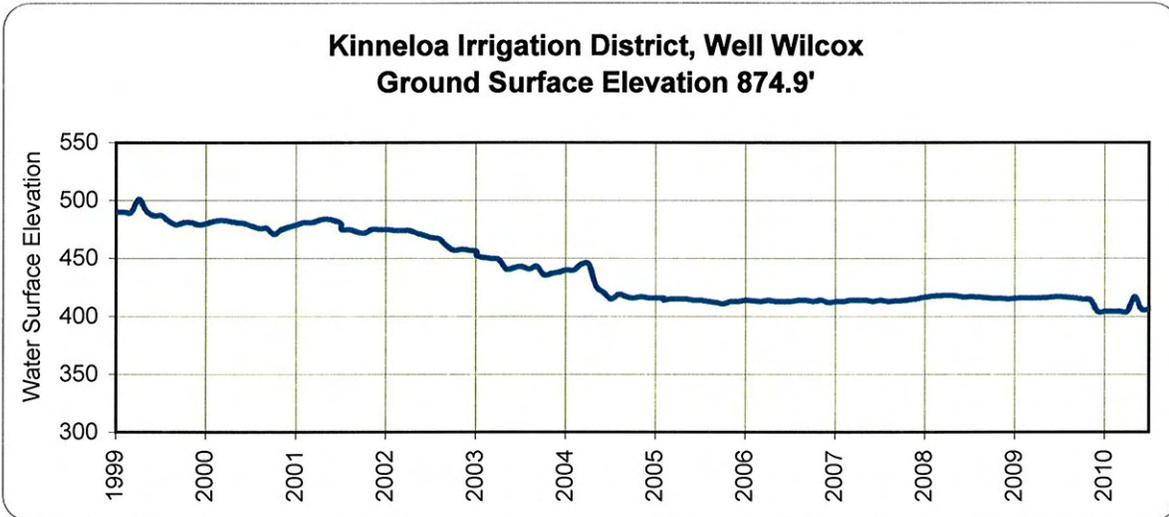
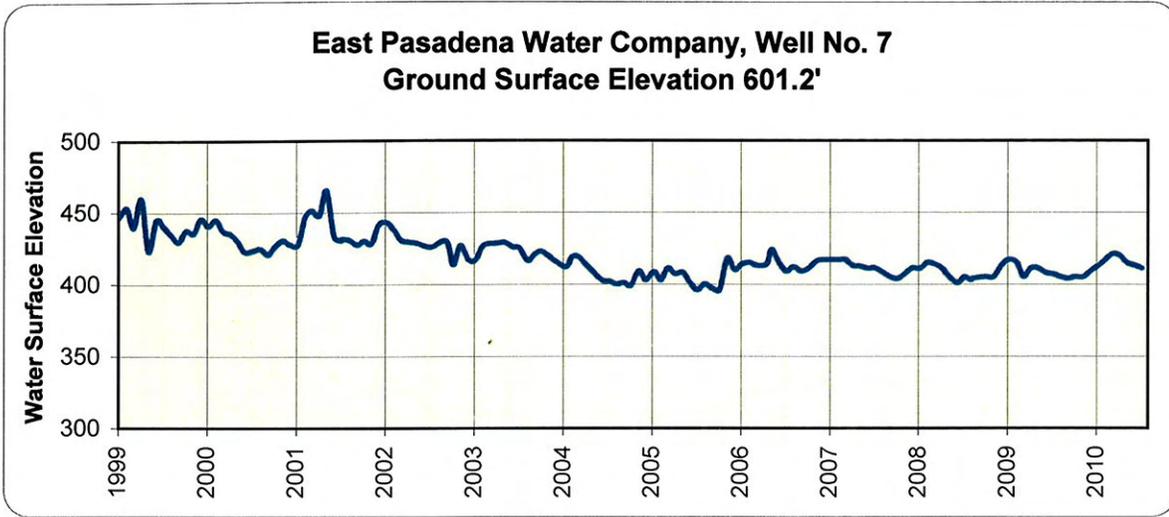


FIGURE 11 - FLUCTUATION OF WATER LEVELS AT WELLS IN THE SANTA ANITA SUBAREA

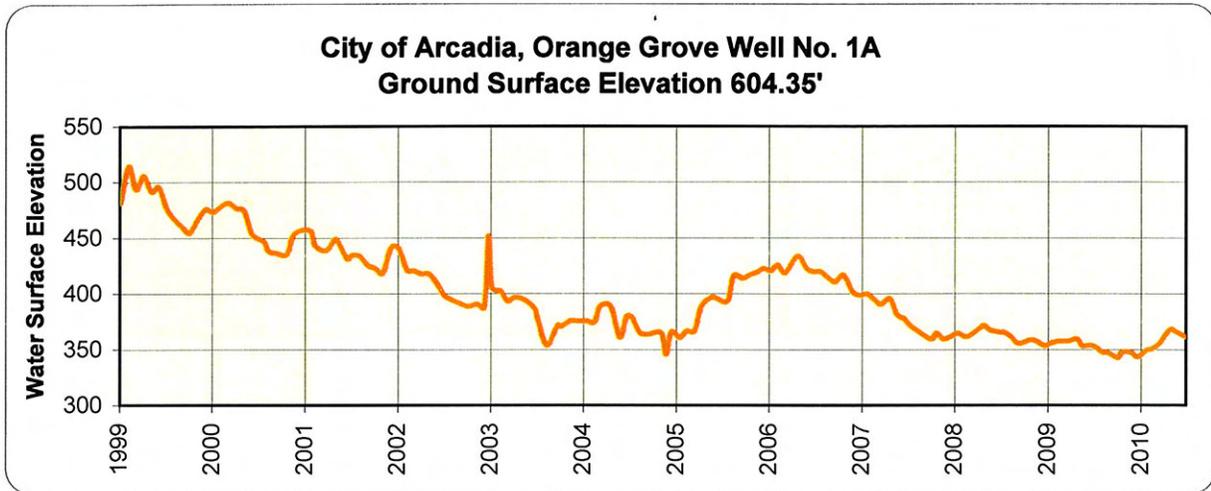
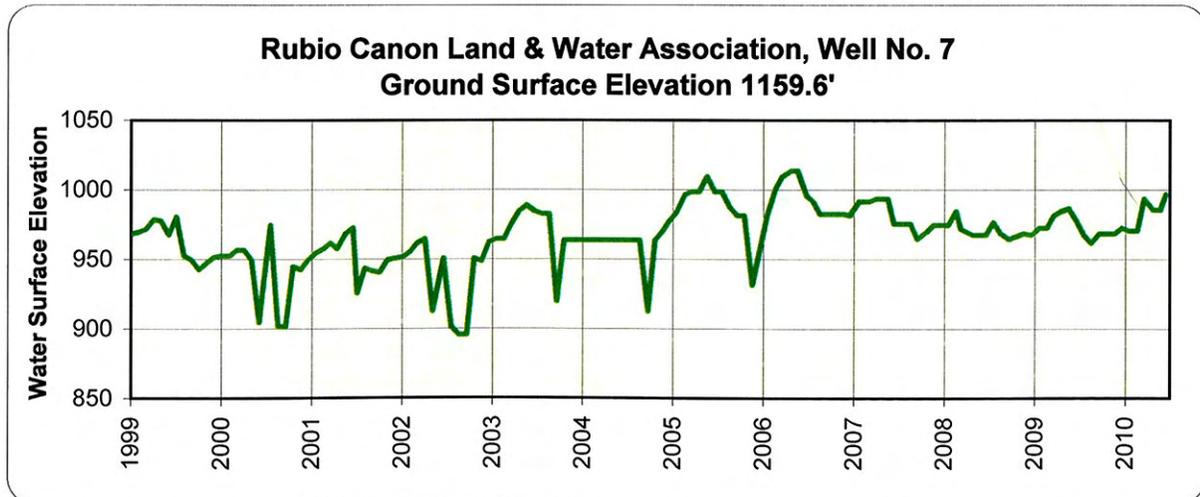
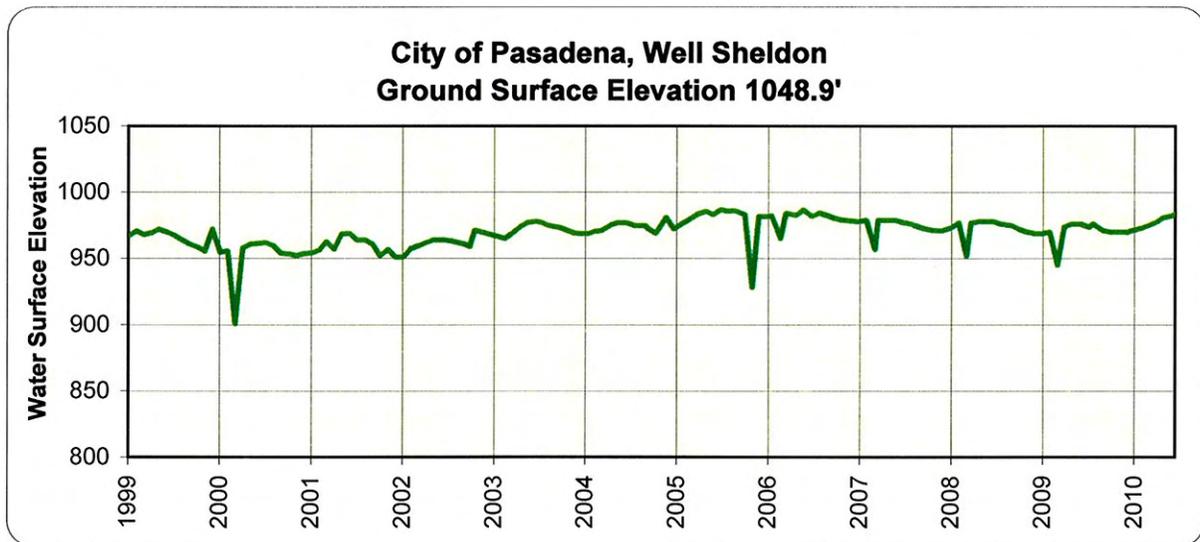
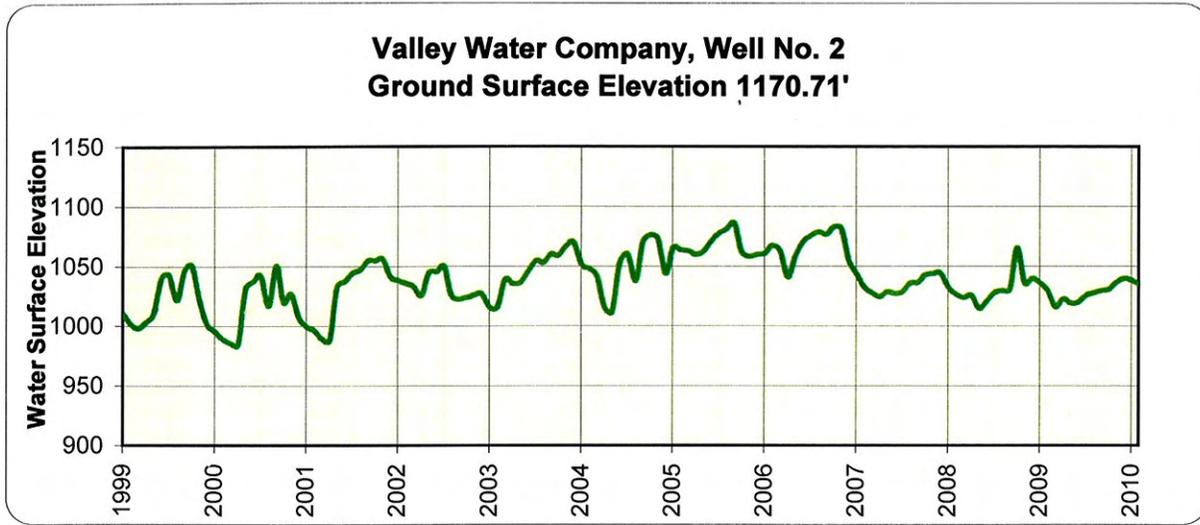


FIGURE 12 - FLUCTUATION OF WATER LEVELS AT WELLS IN THE MONK HILL SUBAREA



APPENDIX K
ORDINANCE NO. 1073

ORDINANCE NO 1073

A URGENCY ORDINANCE OF THE CITY OF SIERRA MADRE, ADDING ARTICLE VI, CHAPTER 3, SECTIONS 6535 AND 6536 TO THE SIERRA MADRE MUNICIPAL CODE, RELATING TO A MANDATORY WATER CONSERVATION PLAN.

SMC Section 13.24

THE CITY COUNCIL OF THE CITY OF SIERRA MADRE DOES HEREBY ORDAIN:

SECTION I. Section 6535 and 6536 of the Sierra Madre Municipal Code are hereby added to read as follows:

Section 6535 Mandatory Water Conservation Plan

- (a) Policy. It is hereby declared that the City of Sierra Madre shall for the general public health, safety, and welfare, and to assure an adequate water supply to the community, require a Mandatory Water Conservation Plan to be authorized during a period of necessity.
- (b) Urgency. The City Council may find and determine that a water shortage emergency condition may exist or may in the immediate future exist, and therein declare the same, establishing the urgent necessity of implementation of a Mandatory Water Conservation Plan, and implementation of this ordinance on the current and immediate threat of a water shortage.
- (c) Purpose. The Mandatory water Conservation Plan is to Minimize the effects of a water shortage to the water customers of the city and to significantly reduce the delivery and consumption of water, thereby extending the period of available water to match the water which may be supplied or delivered to the distribution system of the city. The minimum level of conservation to match the decreed right of water extraction of 1764 acre feet of water from the eastern unit of the Raymond Basin.
- (d) Application. The provision of this urgency ordinance shall apply to all customers, users, and property served by the Water Department. It shall also apply to all properties and facilities owned, maintained, operated, or under the jurisdiction of the various officers, boards, commissions, departments, or agencies of the city.

Section 6536 Water Conservation Phases (I through VI)

No customer of the Water Department shall make, cause, use or permit the use of water from the Water Department for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this urgency ordinance or in an amount in excess of that use permitted by the conservation plan in effect and any prior phase, pursuant to action taken by the City Council in accordance with the provisions of this urgency ordinance.

(a) PHASE I PROHIBITED USE APPLICABLE TO ALL CUSTOMERS

- (1) There shall be no washing of sidewalks, walkways, patios, driveways, or parking areas by a water hose.
- (2) No water shall be used to clean, fill or maintain levels in decorative fountains unless such water is part of a recycling system.

- (3) No restaurant, cafe, deli, or other public place where food is sold, served or offered for sale, shall serve drinking water to any customer unless expressly requested by the customer.
- (4) No customer of the Water Department shall permit water to leak from any facility on the premises.
- (5) No lawn, landscaping, or other turf area shall be watered or irrigated between the hours of 10:00 A.M. and 4:00 P.M.
- (6) No lawn, landscape, or turf area shall be watered in a wasteful manner. Nor shall any water be wasted if the existing conditions may be corrected or reasonable modified.
- (b) PHASE II CUSTOMER WATER CURTAILMENT BY 10%. No customer shall make, cause, use or permit the use of water delivered from the Water Department for any purpose in an amount in excess of ninety percent (90%) of the amount used during the base period defined in this ordinance.
- (c) PHASE III CUSTOMER WATER CURTAILMENT BY 15%. No customer shall make, cause, use or permit the use of water delivered from the Water Department for any purpose in an amount in excess of eighty-five percent (85%) of the amount used during the base period defined in this ordinance.
- (d) PHASE IV CUSTOMER WATER CURTAILMENT BY 20%. No customer shall make, cause, use or permit the use of water delivered from the Water Department for any purpose in an amount in excess of eighty percent (80%) of the amount used during the base period defined in this ordinance.
- (e) PHASE V CUSTOMER CURTAILMENT BASED ON 2064 ACRE FEET OF WATER AVAILABLE. No customer shall make, cause, use, or permit the use of water delivered from the Water Department for any purpose in an amount in excess of the base period allocation, which may be approximately 24%, or as specifically determined for each property or site.
- (f) PHASE VI CUSTOMER CURTAILMENT BASED ON 1764 ACRE FEET OF WATER AVAILABLE. No customer shall make, cause, use, or permit the use of water delivered from the Water Department for any purpose in an amount in excess of the base period allocation, which may be approximately 36%, or as specifically determined for each property or site.
- (g) EXCEPTION. SERVICES. The prohibited uses of water from the Water Department provided in sub-section 6535(a) are not applicable to that use of water necessary for public health, safety, or for essential governmental services such as fire, police, public works, or similar emergency services.
- (h) EXCEPTION. CONSERVATION. The implementation of Phases II through IV shall not apply to customers of the Water Department currently utilizing less than 2000 cubic feet of water per billing cycle. This is approximately equal to 250 gallons per day, calculated as follows: 2000 cubic feet x 7.48 gallons per cubic foot, divided by 60 (approximate number of days in billing period).

- (1) FAILURE TO COMPLY. It shall be unlawful and a misdemeanor for any customer or user thereof of the Water Department to fail to comply with any provision of this ordinance. Civil penalties for failure to comply with any of the provisions shall be as follows:
- (1) First Violation For the first violation by any customer of the Water Department of any provision of Section 6536(a) through (f), a surcharge penalty is hereby imposed in an amount of twice the current water rate per 100 cubic feet of water or billing units.
 - (2) Second Violation For the second violation by any customer of the Water Department of any provision of Section 6536(a) through (f), a penalty equal to 100% of Section 6536(i)(1) is hereby imposed.
 - (3) Third Violation For the third violation by any customer of the Water Department of any provision of Section 6536(a) through (f), a water restrictor shall be installed behind the water meter, after due notice and due process in regards to usage, needs, and/or the installation of a fire sprinkler system at the site. The unavailability of adequate water supply may require the site to be unoccupied.
 - (4) Cost of Installation and Removal of Flow Restrictor The City Council shall authorize the fee schedule for any cost of installation and removal of flow restrictor(s) devices.
 - (4) VIOLATION PERIOD After a warning, the first, second, and third violations will be determined by the number of times in the proceeding twelve months, beginning with July in any given prior year, the Conservation Plan phases are exceeded.
 - (5) ADMINISTRATIVE RELIEF A Water Appeals Board is established to hear appeals of the base allocation, percentage conservation, and violation surcharges or penalties. The Water Appeals Board shall be comprised of three representatives from the Water Department, Finance Department, and Administration.

The following procedural requirements shall apply with regard to the office conference and appeal:

- (a) Request for an office conference must be filed in writing to the Water Department within ten (10) working days after receipt of the utility bill. The customer must state in writing the grounds for the appeal.
- (b) The office conference shall occur within ten (10) working days of receipt of the request.
- (c) The Water Department shall render a decision within ten (10) working days of the office conference.
- (d) An appeal may be filed within ten (10) working days after a final decision by the Water Department to the Water Appeals Board. The appeal should state the grounds upon which it is based, and what remedy, if any, the Appellant seeks.

The Water Department shall have the authority, upon the filing by a customer of an application for relief as herein provided, to take such steps as it deems reasonable and to set up such procedures as it considers necessary to resolve said application for relief. In determining whether relief shall be granted, the Water Department, and on appeal to the Water Appeals Board, shall take into consideration all relevant factors including, but limited to:

1. Whether any additional reduction in water consumption will result in unemployment;
2. Whether additional members have been added to the household;
3. Whether any additional landscaped property has been added to the base period property;
4. Changes in vacancy factors in multi-family housing;
5. Increased number of employees in commercial, industrial, and governmental offices;
6. Increased production requiring increased water;
7. Necessary water uses during new construction;
8. Adjustments to water use caused by emergency health or safety hazards;
9. First filing of a permit-constructed swimming pool;
10. Water use necessary for reasons related to family illness or health.

No relief shall be granted to any customer for any reason in the absence of a showing by the customer that he has achieved the maximum practical reduction in water consumption, as the case may be, other than in the specific area in which relief is being sought. No relief shall be granted to any customer who, when requested by the Water Department, fails to provide the Water Department with information whereby the services provided to him/her can be classified for the purpose of establishing an appropriate base or classification pursuant to the provisions of this Chapter. If an action on the application for relief is mutually agreed upon between the Water Department and the customer, the agreement shall be in writing and signed by the customer, and no appeal on said application may be made by the customer.

- (e) RELIEF FROM COMPLIANCE WILLFUL MISREPRESENTATION
Notwithstanding any other provision of law, any willful misrepresentation of a material fact by any person to the Water Department or to the Water Appeals Board, made for the purpose of securing relief from the provisions of this Urgency Ordinance for any customer, is unlawful; and a

violation of this subsection shall be punishable by a fine not to exceed five hundred dollars (\$500), or by imprisonment in the county jail for a period not to exceed six (6) months, or by both such fine and imprisonment.

(j) BASE PERIOD ALLOCATION: 1989 CONSUMPTION DATA

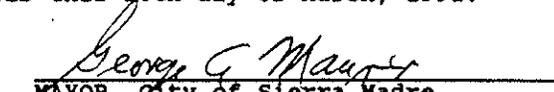
(k) IMPLEMENTATION OF REQUIRED PHASES

The Water Department shall evaluate and monitor the projected availability, supply, and demand for water, and shall recommend to the City Administrator, the extent of the conservation phases required by customers, so the Department may prudently plan for and deliver water to its customers on a continuous fiscal year basis. The City Council, shall by Resolution, order that the appropriate phase of water conservation be implemented, modified, or rescinded. The Resolution shall become effective immediately upon adoption by the City Council and shall be published once in the newspaper of general circulation. Percentage reduction shall apply to the next billing cycle commencing on or after the effective date of the adoption by the City Council.

SECTION II. This Ordinance shall become immediately effective pursuant to the provisions of Section 65858 of the Government Code and for the reasons stated above.

SECTION III. The City Clerk shall certify to the adoption of this Ordinance and shall cause the same to be published in a newspaper of general circulation in the City of Sierra Madre.

APPROVED AND ADOPTED this 26th day of March, 1991.


MAYOR, City of Sierra Madre
California

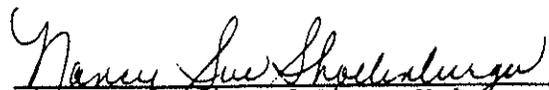
ATTEST:


City Clerk

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)
CITY OF SIERRA MADRE)

I, Nancy Sue Shollenberger, City Clerk of the City of Sierra Madre, do hereby certify that the foregoing Urgency Ordinance, being Ordinance No. 1073, was duly passed, approved, and adopted by said Council by the following vote:

AYES: Mayor George A. Maurer, Mayor Pro Tem Andrew R. Buchan
Councilmembers Gary B. Adams, Clem L. Bartolai and Mary Ann
MacGillivray
NOES: None
ABSENT: None


City Clerk, City of Sierra Madre,
California

APPENDIX L

MANDATORY WATER CONSERVATION PLAN

Chapter 13.24 - MANDATORY WATER CONSERVATION PLAN

Sections:

[13.24.010 - Policy declaration.](#)

[13.24.020 - Urgency determination—Plan implementation.](#)

[13.24.030 - Purpose.](#)

[13.24.040 - Application.](#)

[13.24.050 - Water conservation phases \(I through VI\).](#)

[13.24.060 - Phase I—Prohibited use applicable to all customers.](#)

[13.24.070 - Phase II—Customer water curtailment by ten percent.](#)

[13.24.080 - Phase III—Customer water curtailment by fifteen percent.](#)

[13.24.090 - Phase IV—Customer water curtailment by twenty percent.](#)

[13.24.100 - Phase V—Customer curtailment based on two thousand sixty-four acre feet of water available.](#)

[13.24.110 - Phase VI—Customer curtailment based on one thousand seven hundred sixty-four acre feet of water available.](#)

[13.24.120 - Exception—Services.](#)

[13.24.130 - Exception—Conservation.](#)

[13.24.140 - Failure to comply—Penalties.](#)

[13.24.150 - Installation and removal of flow restrictors—Costs.](#)

[13.24.160 - Violation period determination.](#)

[13.24.170 - Administrative relief.](#)

[13.24.180 - Relief from compliance—Wilful misrepresentation.](#)

[13.24.190 - Base period allocation.](#)

[13.24.200 - Implementation of required phases.](#)

13.24.010 - Policy declaration.

It is declared that the city shall, for the general public health, safety and welfare and to assure an adequate water supply to the community, require a mandatory water conservation plan to be authorized during a period of necessity.

(Ord. 1073 § 1 (part), 1991: prior code § 6535(a))

13.24.020 - Urgency determination—Plan implementation.

The city council may find and determine that a water shortage emergency condition may exist or may in the immediate future exist, and therein declare the same, establishing the urgent necessity of implementation of a mandatory water conservation plan, and implementation of the ordinance codified in this chapter on the current and immediate threat of a water shortage.

(Ord. 1073 § 1 (part), 1991: prior code § 6535(b))

13.24.030 - Purpose.

The mandatory water conservation plan is to minimize the effects of a water shortage to the water customers of the city and to significantly reduce the delivery and consumption of water, thereby extending the period of available water to match the water which may be supplied or delivered to the distribution system of the city. The minimum level of conservation to match the decreed right of water extraction of one thousand seven hundred sixty-four acre feet of water from the eastern unit of the Raymond Basin.

(Ord. 1073 § 1 (part), 1991: prior code § 6535(c))

13.24.040 - Application.

The provisions of the urgency ordinance codified in this chapter shall apply to all customers, users, and property served by the water department. It shall also apply to all properties and facilities owned, maintained, operated, or under the jurisdiction of the various officers, boards, commissions, departments, or agencies of the city.

(Ord. 1073 § 1 (part), 1991: prior code § 6535(d))

13.24.050 - Water conservation phases (I through VI).

No customer of the water department shall make, cause, use or permit the use of water from the water department for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of the urgency ordinance codified in this chapter or in an amount in excess of that use permitted by the conservation plan in effect and any prior phase, pursuant to action taken by the city council in accordance with the provisions of the urgency ordinance codified in this chapter.

(Ord. 1073 § 1 (part), 1991: prior code § 6536 (part))

13.24.060 - Phase I—Prohibited use applicable to all customers.

- A.** There shall be no washing of sidewalks, walkways, patios, driveways, or parking areas by a water hose.
- B.** No water shall be used to clean, fill or maintain levels in decorative fountains unless such water is part of a recycling system.
- C.** No restaurant, cafe, deli, or other public place where food is sold, served or offered for sale, shall serve drinking water to any customer unless expressly requested by the customer.
- D.** No customer of the water department shall permit water to leak from any facility on the premises.
- E.** No lawn, landscaping, or other turf area shall be watered or irrigated between the hours of ten a.m. and four p.m.
- F.** No lawn, landscape, or turf area shall be watered in a wasteful manner. Nor shall any water be wasted if the existing conditions may be corrected or reasonably modified.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(a))

13.24.070 - Phase II—Customer water curtailment by ten percent.

No customer shall make, cause, use or permit the use of water delivered from the water department for any purpose in an amount in excess of ninety percent of the amount used during the base period defined in this chapter.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(b))

13.24.080 - Phase III—Customer water curtailment by fifteen percent.

No customer shall make, cause, use or permit the use of water delivered from the water department for any purpose in an amount in excess of eighty-five percent of the amount used during the base period defined in this chapter.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(c))

13.24.090 - Phase IV—Customer water curtailment by twenty percent.

No customer shall make, cause, use or permit the use of water delivered from the water department for any purpose in an amount in excess of eighty percent of the amount used during the base period defined in this chapter.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(d))

13.24.100 - Phase V—Customer curtailment based on two thousand sixty-four acre feet of water available.

No customer shall make, cause, use, or permit the use of water delivered from the water department for any purpose in an amount in excess of the base period allocation, which may be approximately twenty-four percent, or as specifically determined for each property or site.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(e))

13.24.110 - Phase VI—Customer curtailment based on one thousand seven hundred sixty-four acre feet of water

available.

No customer shall make, cause, use, or permit the use of water delivered from the water department for any purpose in an amount in excess of the base period allocation, which may be approximately thirty six percent, or as specifically determined for each property or site.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(f))

13.24.120 - Exception—Services.

The water uses prohibited by the water department in Section 13.24.060 are not applicable to that use of water necessary for public health, safety, or for essential governmental services such as fire, police, public works, or similar emergency services.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(g))

13.24.130 - Exception—Conservation.

The implementation of Phases II through IV shall not apply to customers of the water department currently utilizing less than two thousand cubic feet of water per billing cycle. This is approximately equal to two hundred fifty gallons per day, calculated as follows: 2000 cubic feet x 7.48 gallons per cubic foot, divided by 60 (approximate number of days in billing period).

(Ord. 1073 § 1 (part), 1991: prior code § 6536(h))

13.24.140 - Failure to comply—Penalties.

It is unlawful and a misdemeanor for any customer or user thereof of the water department to fail to comply with any provision of this chapter. Civil penalties for failure to comply with any of the provisions shall be as follows:

A.

First Violation. For the first violation by any customer of the water department of any provision of Sections 13.24.060 through 13.24.110, a surcharge penalty is imposed in an amount of twice the current water rate per one hundred cubic feet of water or billing units.

B.

Second Violation. For the second violation by any customer of the water department of any provision of Sections 13.24.060 through 13.24.110, a penalty equal to one hundred percent of the penalty set forth in subsection A of this section is imposed.

C.

Third Violation. For the third violation by any customer of the Water Department of any provision of Sections 13.24.060 through 13.24.110, a water restrictor shall be installed behind the water meter, after due notice and due process in regards to usage, needs, and/or the installation of a fire sprinkler system at the site. The unavailability of adequate water supply may require the site to be unoccupied.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(i)(1—3))

13.24.150 - Installation and removal of flow restrictors—Costs.

The city council shall authorize the fee schedule for any cost of installation and removal of flow restrictor(s) devices.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(i)(4))

13.24.160 - Violation period determination.

After a warning, the first, second, and third violations will be determined by the number of times in the proceeding twelve months, beginning with July in any given prior year, the conservation plan phases are exceeded.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(i)(4))

13.24.170 - Administrative relief.

A.

A water appeals board is established to hear appeals of the base allocation, percentage conservation, and violation surcharges or penalties. The water appeals board shall be comprised of three representatives from the water department, finance department and administration.

B.

The following procedural requirements shall apply with regard to the office conference and appeal:

1. Request for an office conference must be filed in writing to the water department within ten working days after receipt of the utility bill. The customer must state in writing the grounds for the appeal.
2. The office conference shall occur within ten working days of receipt of the request.
3. The water department shall render a decision within ten working days of the office conference.
4. An appeal may be filed within ten working days after a final decision by the water department to the water appeals board. The appeal should state the grounds upon which it is based, and what remedy, if any, the appellant seeks.

C.

The water department shall have the authority, upon the filing by a customer of an application for relief as herein provided, to take such steps as it deems reasonable and to set up such procedures as it considers necessary to resolve said application for relief. In determining whether relief shall be granted, the water department, and on appeal to the water appeals board, shall take into consideration all relevant factors including, but not limited to:

1. Whether any additional reduction in water consumption will result in unemployment;
2. Whether additional members have been added to the household;
3. Whether any additional landscaped property has been added to the base period property;
4. Changes in vacancy factors in multifamily housing;
5. Increased number of employees in commercial, industrial and governmental offices;
6. Increased production requiring increased water;
7. Necessary water uses during new construction;
8. Adjustments to water use caused by emergency health or safety hazards;
9. First filling of a permit-constructed swimming pool;
10. Water use necessary for reasons related to family illness or health.

D.

No relief shall be granted to any customer for any reason in the absence of a showing by the customer that he has achieved the maximum practical reduction in water consumption, as the case may be, other than in the specific area in which relief is being sought. No relief shall be granted to any customer who, when requested by the water department, fails to provide the water department with information whereby the services provided to him/her can be classified for the purpose of establishing an appropriate base or classification pursuant to the provisions of this chapter. If an action on the application for relief is mutually agreed upon between the water department and the customer, the agreement shall be in writing and signed by the customer, and no appeal on said application may be made by the customer.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(i)(5)(a—d))

13.24.180 - Relief from compliance—Wilful misrepresentation.

Notwithstanding any other provision of law, any wilful misrepresentation of a material fact by any person to the water department or to the water appeals board, made for the purpose of securing relief from the provisions of the urgency ordinance codified in this chapter for any customer, is unlawful; and a violation of this section shall be punishable by a fine not to exceed five hundred dollars, or by imprisonment in the county jail for a period not to exceed six months, or by both such fine and imprisonment.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(i)(5)(e))

13.24.190 - Base period allocation.

Base period allocation: 1989 Consumption Data.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(j))

13.24.200 - Implementation of required phases.

The water department shall evaluate and monitor the projected availability, supply, and demand for water, and shall recommend to the city administrator, the extent of the conservation phases required by customers, so the department may prudently plan for and deliver water to its customers on a continuous fiscal year basis. The city council shall, by resolution, order that the appropriate phase of water conservation be implemented, modified, or rescinded. The resolution shall become effective immediately upon adoption by the city council and shall be published once in the newspaper of general circulation. Percentage reduction shall apply to the next billing cycle commencing on or after the effective date of the adoption by the city council.

(Ord. 1073 § 1 (part), 1991: prior code § 6536(k))

APPENDIX M

WATER SHORTAGE CONTINGENCY PLAN

DRAFT

DRAFT

C I T Y O F S I E R R A M A D R E

WATER SHORTAGE
CONTINGENCY PLAN

November 1992

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Section 1 Coordinated Planning

The City of Sierra Madre obtains all of its water from wells located on City Property except for some water provided from adits (sometimes called tunnels) in the mountains above the City. There are no interconnections with other systems.

The City is not a member of the Metropolitan Water District. The Foothill Feeder of this District (a 10 foot diameter potable water line) runs the entire width of the City from east to west, however. The City's wells and the "tunnels" have traditionally supplied all City needs for the last 75 years or more.

There is an adjudicated volume of water from the Raymond Basin which the City has rights to. The water from the tunnels is not included in this adjudicated amount and in effect is an uncounted additional volume. The Raymond Basin Watermaster establishes amounts which can be pumped and keeps records of production under an agreement. The City can pump beyond the amount it has rights to but is subject to extra charges when it does.

The Raymond Basin Watermaster has indicated that, in view of the fact that rainfall for the last two years has been close to or above normal, water supplies from the basin are expected to be normal for the next 3 to 5 years.

The City is located at the foot of the San Gabriel Mountains with no water purveyors between it and the Mountains. Since there are no industries in the City contamination of the water supply from industrial sources is unlikely or impossible.

It would be physically possible for the City water system to be connected to any one of three other systems at a reasonable cost. The systems are

- + City of Arcadia
- + City of Pasadena
- + Metropolitan Water District

No actions leading to an interconnect are planned at this time.

The City is a member of the San Gabriel Valley Municipal Water District. It has no physical connection to the District's lines because the closest ones are about 20 miles from the City. The City contributes funds to the District which has contracts for

State Water Project water. A limited amount of water rights are made available by trading through a third party.

The City has a considerable credit with the District for unused rights. However, the District has informed the City that it is presently programmed to get only 20% of its requested 18,000 Acre Feet of water due to shortages of the State Water Project. Further allotments may be furnished by the state later in the year.

In 1991, because of an overextraction from the Raymond Basin an emergency water exchange agreement with the City of Arcadia was approved and consummated. The agreement consists of a water exchange whereby the City of Arcadia leased 352 Acre-feet of pumping rights in the Raymond Basin to Sierra Madre. In exchange, Sierra Madre purchased 352 acre-feet of State Water Project water through the District for replenishment of the Main San Gabriel Basin and transfer this water to the City of Arcadia. The City of Arcadia pumps from both the Main Basin and the Raymond Basin.

It is assumed that this trading of rights with Arcadia will continue in the future. In wet years Sierra Madre will sell excess water rights in the Raymond Basin to Arcadia. In dry years, Sierra Madre will buy State Water Project water for replenishment in the Main Basin from the District and Arcadia will transfer an equivalent amount of water rights in the Raymond Basin to Sierra Madre.

Section 2 Past, Current and Projected Water Use (1992-95)

The City has a population of about 11,000. A small commercial sector exists with the rest of the City being residential property. Some of the steeper property has been zoned as very low density residential. In the flatter areas, however, some single family residential is being converted to multiple residential.

Sierra Madre has had a net water use increase of only 499 acre-feet between 1979 and 1989. The water use in 1978-1979 was 2,655 Acre Feet and the water use in 1988-1989 was 3,154 acre-feet according to the yearly watermaster reports. This is an increase of less than 2% per year.

Because the City Limits of the City is not likely to change and the City is nearly fully developed, it is believed that growth in water use will be in accord with this amount or approximately 2% per year for the foreseeable future.

Sierra Madre has a decreed water right to 1,764 Acre Feet per year from the Raymond Basin. In addition to this decreed right Sierra Madre receives credit for all water spread at the City Yard less deductions required by the watermaster. Water from the "tunnels" is also put in the system but is not charged against Sierra Madre's rights.

Due to recently experienced savings by customers, the City now uses approximately 2,750 Acre Feet of water per year. About 200 Acre Feet are produced by the "Tunnels" with the rest (approximately 1,100 Acre Feet per year) being credited due to water spread at the City Yard. Recently use has exceeded its rights resulting in a need to use additional rights from the San Gabriel Valley Municipal Water District.

The City does not record water usage by category. The following table, therefore estimates the amount of water used by the various categories.

Table 1 Customer Types, Normal Demand and Demand Including Growth						
Customer type	connections	Highest Use AF	Projected 1991 AF	Projected 1992 AF	Projected 1993 AF	Projected 1994 AF
Single Family	3,478	2,500	2,550	2,601	2,653	2,707
Multifamily	See above					
Commercial	109	150	150	150	150	150
Industrial	0	0	0	0	0	0
Governmental	42	100	100	100	100	100
Agricultural	0	0	0	0	0	0
Recreational	?	?	?	?	?	?
Total		2,750	2,800	2,851	2,903	2,957

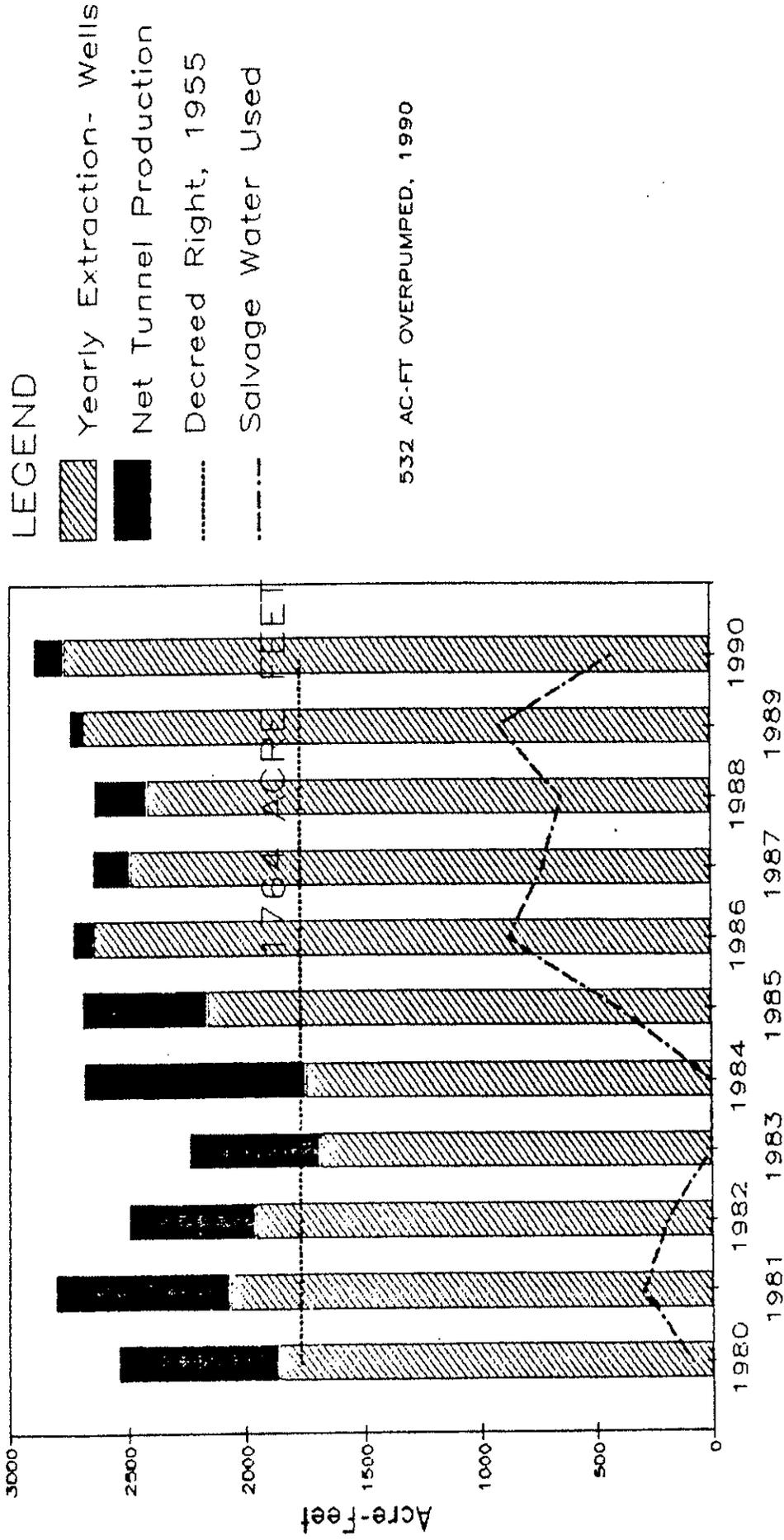
Single family use is not separated from multi-family use in the City records. Some of the "Governmental" meters are at parks and other recreational activities.

Single family and multifamily connections are projected to continue to increase at a rate of less than 2% per year. Water sold to users in the other categories is expected to remain relatively constant over the years.

On the next page is a chart showing water use for the last ten years in Sierra Madre.

City of Sierra Madre

Water Production, Salvage Water and Decreed Right, 1955



Water Year
(July 1 to June 30)

Zimmerman Consulting Engineers

C:\CM\SM6133D2 August 22, 1990

Section 3 Worst Case Water Supply Availability for 12, 24 & 36 Months

Since the City's main water supply is from groundwater pumped by the City's wells, a shortage is highly unlikely. At worst, the City may be forced to pump from a lower elevation and may have to lower the pump bowls to accommodate to a lower water table.

There are no plans for reclaimed water use in the City. The quality of the ground water is high because of the location above possible sources of pollution from industrial sources.

The City may exceed its decreed right in years with low rainfall however the water will be available for pumping if the City is able to trade water rights or over pump its allotment.

The City of Sierra Madre has the water rights listed below. Average water rights by source and projected worst case water rights situation by source are provided in Table 2.

Source	Contractual Amount	85-89 Avg. Use	Actual 1991	Projected Worst Case 1992	Projected Worst Case 1993	Projected Worst case 1994
Decreed Rights	1764	1764	1764	1764	1764	1764
Replenishment	Varies	720	450	450	450	450
"Tunnels"	Actual	220	133	150	150	150
Other	<u>0</u>	<u>0</u>	<u>352</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	1764+	2704	2699	2364	2364	2364

Section 4 Stages of Action

The City has established the following five stage rationing plan in case of a water shortage (Ordinance 1073). The plan includes voluntary and mandatory stages.

Table 3 Rationing Stages and Reduction Goals

Shortage	Stage	Demand Reduction Goal	Type Program
10%	I	10%	Voluntary
15%	II	15%	Mandatory
24%	III	24%	Mandatory
36%	IV	36%	Mandatory
50%	V	50%	Mandatory

The Health and Safety minimum allotment for residential use suggested by State sample calculations is 68 gallons per capita per day. We have increased this amount in each of the stages of Table 2 (below). The suggested State minimum allotment is supposed to provide sufficient water for essential interior use with no habit or plumbing fixture changes. If individuals wish to change water use habits or plumbing fixtures, 68 gallons per capita per day is sufficient to provide for limited non-essential uses. The amounts we show may provide more water for limited non-essential uses than the state standard.

Based on the customer demand information in Table I, Table 4 indicates the water allocated to each customer type by priority and rationing stage.

Table 4 Water Supply Allocated by Priority (Acre-feet per year)

<u>Stage I</u>				
Priority	Residential	Commercial	Gov't	Total
Average use	2,500	150	100	2,750
Requested use	2,250	135	80	2,465
% Reduction	10%	10%	20%	10%

Stage II

Priority	Residential	Commercial	Gov"t	Total
Average use	2,500	150	100	2,750
Health (136 gpcd)	1,940	20	20	1,950
Commercial	0	102	0	70
Ag - Permanent	0	0	0	0
Landscap/Ag	175	5	50	300
New Connections	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
TOTAL	2,125	127	70	2,322
% Reduction	15%	15%	30%	16%

Stage III

Priority	Residential	Commercial	Gov"t	Total
Average use	2,500	150	100	2,750
Health (120 gpcd)	1,710	10	15	1,735
Commercial	0	100	0	100
Ag - Permanent	0	0	0	0
Landscap/Ag	190	5	45	240
New Connections	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
TOTAL	1,900	115	60	2,075
% Reduction	24%	24%	40%	25%

Stage IV

Priority	Residential	Commercial	Gov"t	Total
Average use	2,500	150	100	2,750
Health (105 gpcd)	1,500	10	10	1,520
Commercial	0	80	0	80
Ag - Permanent	0	0	0	0
Landscap/Ag	100	5	40	145
New Connections	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
TOTAL	1,600	95	50	1,745
% Reduction	36%	36%	50%	37%

Stage V

Priority	Residential	Commercial	Gov"t	Total
Average use	2,500	150	100	2,750
Health (90 gpcd)	1,250	10	10	1,270
Commercial	0	65	0	65
Ag - Permanent	0	0	0	0
Landscap/Ag	0	0	40	40
New Connections	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
TOTAL	1,250	75	50	1,375
% Reduction	50%	50%	50%	50%

Supply Shortage Triggering Levels

The City of Sierra Madre has a legal responsibility to provide for the health and safety water needs of the community. In order to minimize the social and economic impact of water shortages, it is incumbent upon the City to manage water supplies prudently. The plan of triggering levels outlined in the table below is designed to provide a minimum of 50 percent of normal supply during a severe or extended water shortage. It is established to ensure that these policy statements are implemented.

Because the City has adequate capacity in its wells to pump enough water to meet all its needs, a water shortage, as such, is not expected. The triggering of rationing stages is therefore based on the water rights to pump the water rather than an actual physical shortage of the water.

Table 5 Water Supply Triggering Levels (Normal Supply 2750AFY)

<u>Stage</u>	<u>Percent Shortage</u>	<u>Water Shortage</u>	<u>Other</u>
Stage II	Up to 15 percent rights reduction	No more than 450 AFY supplemental water from Santa Anita Canyon	AND no other source of water or water rights is available*
Stage III	15 to 24 percent rights reduction	No more than 322 AFY supplemental water from Santa Anita Canyon	AND no other source of water or water rights is available*
Stage IV	24 to 36 percent rights reduction	No supplemental water from Santa Anita Canyon	AND no other source of water or water rights is available*
Stage V	36 to 50 percent rights reduction	No supplemental water from Santa Anita Canyon and restriction on full use of decreed right	AND no other source of water or water rights is available*

* except the "tunnels".

Section 5 Mandatory Prohibitions on Water Use

The City has a mandatory prohibition on water use enacted by the City Council as Ordinance No. 1073. A copy of this ordinance is included in the appendix of this report.

Section 6 Consumption Limits

The City has established a base amount of water for individual customers. The base amount is equal to the metered use in 1989. The allotment was established by Sections 6535 and 6536 of the Sierra Madre Municipal Code, a copy of which is in the appendix. There is no difference in the requirements for the various types of customers.

Section 6536 indicates a reduction of water usage of 24% when only 2064 Acre Feet of water are available to the City under its water rights requirements. It also indicates a reduction of 36% in usage when the water rights from the Raymond Basin are the only source authorized (namely 1764 Acre Feet) for the City. Table 4 of this report is in accord with these amounts.

According to the Ordinance, these restrictions do not apply to users of less than 1,000 cubic feet per month. They also do not apply to use for public health, safety or essential governmental services.

Section 7 Penalties or Charges for Excessive Use

The City of Sierra Madre's penalties for failure to comply with consumption limits are listed in Section 6536 (i) of the Municipal Code (see Ordinance 1073 in the appendix).

Section 8 Analysis of Revenue and Expenditure impacts

Table 6 shows the Water Department's Revenues and Expenditures, and the projected fiscal impacts of reduced costs and reduced sales due to shortages.

Table 6 Revenues & Expenditures (Existing charges & costs)

Operating Revenues	Normal	Stage II(15%)	Stage III(24%)	Stage V(50%)
Total Water Sales	\$ 647	\$ 549	\$ 492	\$ 324
Meter Charges	<u>157</u>	<u>157</u>	<u>157</u>	<u>157</u>
Total Revenue	\$ 804	\$ 706	\$ 649	\$ 481
% Reduction	0	12%	19%	40%
Operating Expenses				
salaries	\$ 185	185	185	185
overhead	60	60	60	60
production	656	604	572	482
trans & dist	104	104	104	104
acct & adm.	20	20	20	20
depreciation	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Oper. Exp.	\$1,025	\$ 973	\$ 941	\$ 851
Surplus or (Deficiency)	\$ (221)	\$(267)	\$(292)	\$(370)

The following table shows the projected revenues and expenditures for the Water Department's rate base. A 15% increase in rates for stage 3, a 30% increase for Stage 5 and a 50% increase for Stage 6 are included.

Table 7 Projected Revenues & Expenditures (above changes)

Operating Revenues	Normal	Stage 3(15%)	Stage 5(24%)	Stage 6(50%)
Total Water Sales	\$ 647	\$ 631	\$ 615	\$ 486
Meter Charges	<u>157</u>	<u>157</u>	<u>157</u>	<u>157</u>
Total Revenue	\$ 804	\$ 788	\$ 772	\$ 643
% Reduction	0	2%	4%	20%
Operating Expenses				
salaries	\$ 185	185	185	185
overhead	60	60	60	60
production	656	604	572	482
trans & dist	104	104	104	104
acct & adm.	20	25	25	25
depreciation	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Oper. Exp.	\$1,025	\$ 978	\$ 946	\$ 856
Surplus or (Deficiency)	\$ (221)	\$(185)	\$(169)	\$(208)

The following table contains predictions of the Water Department's Revenues and Expenditures with reduced sales, increased rates and increased or reduced costs associated with shortages. The objective of this set of figures is to zero out the deficiency shown under normal operating conditions in Table 6 above. A 25% increase in meter charges is shown. A 25% increase in rates for "normal" conditions is followed by a 45% increase in rates for stage 3, a 55% increase for Stage 5 and an 100% increase for Stage 6 are used.

Table 8 Projected Revenues & Expenditures (above changes)

Operating Revenues	Normal	Stage 3(15%)	Stage 5(24%)	Stage 6(50%)
Total Water Sales	\$ 809	\$ 796	\$ 763	\$ 648
Meter Charges	<u>196</u>	<u>196</u>	<u>196</u>	<u>196</u>
Total Revenue	\$ 1,005	\$ 992	\$ 959	\$ 844
% Reduction	0	1%	5%	16%
Operating Expenses				
salaries	\$ 185	185	185	185
overhead	60	60	60	60
production	656	604	572	482
trans & dist	104	104	104	104
acct & adm.	20	25	25	25
depreciation	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Oper. Exp.	\$1,025	\$ 978	\$ 946	\$ 856
Surplus or (Deficiency)	\$ (20)	\$ 14	\$ 13	\$ (12)

It is to be noted that while this last table does not show a dollar deficiency, it does not include any money for completing the rehabilitation of the water system. There are still a number of water lines which were installed prior to 1940 of steel. This is well beyond the normal operating life for this material. These lines are likely to cause losses due to leaking and repair costs at any time. They should be replace now.

There is a difference in the total production of about 8 to 1 between the light use winter months and the heavy use summer months. Therefore the timing of any changes in water rates will be critical to the effect on total yearly water revenue. Increases in the rates in the winter time will raise less revenue than increases in the summer.

The effect on the public will likewise be less in the winter (when a 50% increase will amount to smaller total dollars) than in the summer when a big increase will mean a substantial dollar amount.

Section 9 Implementation of the Plan

The City Council will adopted a Resolution to Declare a Water Shortage Emergency according to the criteria in this plan when necessary due to an actual shortage of water rights.

Section 10 Water Use Monitoring Procedures

In normal water supply conditions, production figures are recorded daily. Totals are reported weekly to the Maintenance Supervisor.

Stage 1 and 2 Water Shortages

During Stage 1 or 2 water shortages, daily production figures will be reported to the Maintenance Supervisor. He will compare the weekly production to the target weekly production to verify that the reduction goal is being met. In the event they are not met, he will report that fact to the City Administrator. A monthly summary will be furnished the City Council.

Stage 3 and 4 Water Shortages

During a Stage 3 or 4 water shortage, the procedure listed above will be followed, with the addition of a daily production report to the City Administrator.

Section 11 Plan Adoption Standards

The City of Sierra Madre prepared this Water Shortage Contingency Plan during 1992 using the services of a consultant. The plan was adopted on xxxxx xx, 199_ and submitted to the Department of Water Resources on xxxx xx, 199_. The Plan includes all the information necessary to meet the requirements of subdivision (e) of the California Water Code Section 10631.

A public meeting and availability of copies of the draft water shortage contingency plan were properly noticed in the City's newspapers. Copies of the draft plan were available for public review at City offices and the Public Library.

The 19921 Water Shortage Contingency Plan for the City of Sierra Madre was formally adopted at a duly noticed City Council Meeting on xxxx xx, 199_.

APPENDIX N

RESOLUTION NO. 04-086

RESOLUTION NO. 04-086

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SIERRA MADRE
ADOPTING MANDATORY WATER CONSERVATION MEASURES TO BE
IMPLEMENTED BY SIERRA MADRE RESIDENTS AND BUSINESSES**

WHEREAS, the City of Sierra Madre and the San Gabriel Valley are in the midst of an extended period of below average rainfall ; and

WHEREAS, groundwater levels at Sierra Madre water production wells is reaching all-time lows; and

WHEREAS, low groundwater levels increase wear on water production equipment and increase water production costs; and

WHEREAS, low groundwater levels may be linked to increased concentration of groundwater contamination; and

WHEREAS, conservation of groundwater and reduction of water usage will reduce the impact of the present drought on the City's groundwater supply.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Sierra Madre, that:

SECTION I – All residents and businesses within Sierra Madre are hereby directed to conserve water through implementation of Phase I water conservation measures as described in SMMC 13.24.060:

- A. There shall be no washing of sidewalks, walkways, patios, driveways, or parking areas by a water hose.
- B. No water shall be used to clean, fill or maintain levels in decorative fountains unless such water is part of a recycling system.
- C. No restaurant, cafe, deli, or other public place where food is sold, served or offered for sale, shall serve drinking water to any customer unless expressly requested by the customer.
- D. No customer of the water department shall permit water to leak from any facility on the premises.
- E. No lawn, landscaping, or other turf area shall be watered or irrigated between the hours of ten a.m. and four p.m.
- F. No lawn, landscape, or turf area shall be watered in a wasteful manner. Nor shall any water be wasted if the existing conditions may be corrected or reasonably modified.

SECTION II – The Public Works Department, shall wherever possible within existing working hours, incorporate Items A, D, E, & F into its maintenance schedule.

SECTION III – This Resolution shall remain in effect until superseded by further City Council Resolution or until the water emergency has ended.

SECTION IV – Staff is directed to exercise all reasonable means to disseminate to the community information about water conservation and the urgent need to conserve.

Approved and Adopted on the 25th day of October, 2004.

I, the undersigned, hereby certify that the foregoing Resolution Number No. 04-086 was duly adopted by the Sierra Madre City Council following a roll call vote:

AYES: Mayor Robert A. Stockly, Mayor Pro Tem George Maurer
Councilmembers, John Buchanan, Enid Joffe, Tonja Torres

NOES: None

ABSENT: None

Robert H. Stockly
Rob Stockly, Mayor

ATTEST:

Nancy Sue Shollenberger
Nancy Shollenberger, City Clerk

APPENDIX O
WATER RATE

ORDINANCE NO. 1312

**AN ORDINANCE OF THE CITY OF SIERRA MADRE, CALIFORNIA
AMENDING SECTION 13.04.060 OF THE SIERRA MADRE MUNICIPAL
CODE REGARDING WATER RATES AND ADOPTING A WATER RATE
SCHEDULE**

WHEREAS, the City provides water service pursuant to Chapter 13.04 of the Sierra Madre Municipal Code,

WHEREAS, by prior action, the City Council proposed to increase the rates charged for water service;

WHEREAS, notice of the proposed rate increase, and of a hearing thereon, was mailed pursuant to Article XIID, Section 6 of the California Constitution;

WHEREAS, a full and fair public hearing was held on July 13, 2010, at which all interested persons were permitted to present oral and written testimony with respect to the proposed increased rates;

WHEREAS, following the public input portion of the public hearing, written protests against the proposed increased rates were tabulated in accordance with the procedures previously adopted by the City Council;

WHEREAS, a majority protest against the proposed increased rates does not exist; and

WHEREAS, in response to public input, the City Council desires to adopt rates that are lower than previously proposed, none of which exceed the proposed rates;

**THE CITY COUNCIL OF THE CITY OF SIERRA MADRE, CALIFORNIA DOES
HEREBY ORDAIN AND RESOLVE AS FOLLOWS:**

Section 1. Section 13.04.060 is hereby amended to read as follows:

“13.04.060 Water Rates

The City Council shall adopt a schedule of water rates pursuant to Article XIID, Section 6 of the California Constitution.”

Section 2. The rate schedule set forth in Exhibit “A” to this Ordinance is hereby approved as the schedule of water rates for the City.

Section 3. The City Council may annually consider the rates set forth in Exhibit A and may, by Ordinance, reduce or delay the effectiveness of any scheduled rate.

Section 4. The City Council directs that the Water Users Tax imposed by Section 3.36.090 shall be collected at the rate of 9%, beginning with the effective date of the water rates increase. The Council may, by ordinance, resolution, or order, rescind this direction effective as of any date subsequent to the adoption of that ordinance, resolution, or order. Such rescission shall not be interpreted as an increase of the rate of the Water Users Tax for purposes of Articles XIII A or XIII C of the California Constitution. Notwithstanding any other provision of this Ordinance, the Council would not have adopted any portion of this Section if any other portion of this Section were invalid or unenforceable and the provisions of this Section are not intended to be severable from each other.

Section 5. The City Council finds as follows:

- A. The purpose of the City’s water rates is to fund costs associated with providing water service to water customers in the City.
- B. Revenues derived from the water rates will not be used for any other purpose and will not exceed the funds required to provide water service.
- C. The amount of the rates, and of the Water Connection Fee (Bi-Monthly Meter Charge), imposed upon any customer does not exceed the proportional cost of the service attributable to the customer.

Section 6. If any section, subsection, subdivision, paragraph, sentence, clause, or phrase of this Ordinance is for any reason held to be invalid or unenforceable, such invalidity or unenforceability shall not affect the validity or enforceability of the remaining

sections, subsections, subdivisions, paragraphs, sentences, clauses or phrases of this Ordinance. The City Council of the City of Sierra Madre hereby declares that it would have adopted each section, subsection, subdivision, paragraph, sentence, clause, or phrase hereof, irrespective of the fact that any one or more other sections, subsections, subdivisions, paragraphs, sentences, clauses, or phrases hereof be declared invalid or unenforceable. To the extent the provisions of the Sierra Madre Municipal Code as amended by this Ordinance are substantially the same as the provisions of that Code as they read immediately prior to the adoption of this Ordinance, then those provisions shall be construed as continuations of the earlier provisions and not as new enactments.

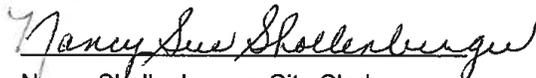
Section 7. This Ordinance shall take effect thirty days after its passage and adoption pursuant to California Government Code section 36937. The rates established by this ordinance for Fiscal Year 2010-11 shall be effective July 1, 2011. Rates for each subsequent fiscal year shall automatically take effect on July 1 of that fiscal year.

Section 6. The City Clerk shall certify to the passage and adoption of this Ordinance and shall cause the same to be published according to law.

PASSED, APPROVED and ADOPTED this 11th day of January, 2011.


Mayor Joe Mosca

ATTEST:


Nancy Shollenberger, City Clerk

APPROVED AS TO FORM:


Sandra J. Levin, City Attorney

I, NANCY SHOLLENBERGER, CITY CLERK of the City of Sierra Madre, do hereby certify that Ordinance No. 1312 was introduced at the regular meeting of the City Council on Nov. 23, 2010, and was thereafter adopted and passed at the regular meeting of the City Council held on Jan. 11, 2011, by the following votes:

AYES: **Mayor, Joe Mosca, Mayor Pro Tem, John Buchanan, Council Members
Josh Moran and Nancy Walsh**

NOES: **Council Member, MaryAnn MacGillivray**

ABSENT: **None**

ABSTAIN: **None**

I DO FURTHER CERTIFY that within 15 days of the date of its passage, I caused a copy of Ordinance No. 1312 to be published or posted as required by law a locally adjudicated paper.


Nancy Shollenberger, City Clerk

Exhibit A

Water Rates, FY's 2010-2015

	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
Tier 1 (<36ccf) % increase*	\$1.92	\$2.06	\$2.21	\$2.37
Tier 2 (36 - 66 ccf) % increase*	\$1.97	\$2.12	\$2.27	\$2.43
= Tier 3 (>66 ccf) % increase*	\$2.00	\$2.15	\$2.30	\$2.45
5/8" & 3/4" meters	\$43.02	\$46.26	\$49.75	\$53.13
5/8" & 3/4" Low Income Rate**	\$27.96	\$30.07	\$32.34	\$34.52
1" meter	\$50.20	\$53.99	\$58.06	\$62.00
1" meter Low Income Rate**	\$35.14	\$37.79	\$40.64	\$43.40
1-1/2" meter	\$64.53	\$69.40	\$74.63	\$79.70
2" meter	\$93.22	\$100.25	\$107.81	\$115.13
3" meter	\$172.07	\$185.05	\$199.01	\$212.52
4" meter	\$250.94	\$269.87	\$290.22	\$309.94

* For multi-family residential water consumption, tiers will be determined based on the amount of consumption per dwelling unit.

** Low Income Discount rates apply to any customer who has established his or her qualification for the Low Income Utility Users' Tax Exemption created by City Council Resolution No. 08-35.

APPENDIX P
SEWER RATE



TYPE	2008-2009	2009-2010	2010-2011	Unit Measurement
Grading Inspection	\$2,169.00	\$2,234.00	\$2,301.00	per project, grading over 100,000 and up to and including 200,000 cubic yards (Includes 3 inspections)
Grading Inspection	\$4,948.00	\$5,096.00	\$5,249.00	per project, grading over 200,000 cubic yards
Grading Inspection	\$85.00	\$88.00	\$91.00	per hour, additional grading inspections per project
Misc. Public Works Fees				
Certificate of Compliance Application and Review	\$399.00	\$411.00	\$423.00	Per review
Street Vacation	\$1,400.00	\$1,442.00	\$1,485.00	Each
Quitclaim Easement	\$804.00	\$828.00	\$853.00	
Street Address Assignment or Change	\$173.00	\$178.00	\$183.00	Per address per request
Street Name Assignment or Change	\$757.00	\$780.00	\$803.00	Per street per request
Street Trees				
Protected Tree permit fee (Developers Only)	\$327.00	\$337.00	\$347.00	
Sewer				
Sewer Permit	\$71.00	\$73.00	\$75.00	Minimum Permit Fee
Basic Sewer Fees				
Sewer Maintenance Fee - Residential	\$22.20	\$22.20	\$22.20	Bi-monthly base rate - single residence
Sewer Maintenance Fee - Multi-residential	\$27.30	\$27.30	\$27.30	Bi-monthly base rate - each unit
Sewer Maintenance Fee - Business	\$105.00	\$105.00	\$105.00	Bi-Monthly base rate - Single Business
Sewer Maintenance Fee - Business	\$105.00	\$105.00	\$105.00	Bi-monthly base rate - each additional unit 2-5
Sewer Maintenance Fee - Business	\$75.00	\$75.00	\$75.00	Bi-monthly base rate - each additional unit 6+
Other Sewer Fees				
Sewer Connection Fee	\$286.00	\$295.00	\$304.00	Per connection
Sewer Dye test	\$346.00	\$356.00	\$367.00	Per request
Sewer Stoppage Investigation	\$102.00	\$105.00	\$108.00	Per investigation.
Saddle Main Line	\$313.00	\$322.00	\$332.00	Per request (includes two inspections)
Residential Sewer Connection	\$102.00	\$105.00	\$108.00	Per request
Street/Curb/Pavement/Drive Permit Fees				
Combined residential approach	\$309.00	\$318.00	\$328.00	Flat Fee
Commercial Driveway approach	\$309.00	\$318.00	\$328.00	Flat Fee
Residential Driveway approach	\$262.00	\$270.00	\$278.00	Flat Fee
Curb & gutter removal & reconstruction	\$214.00	\$220.00	\$227.00	0-50 lineal ft.
Curb & gutter removal & reconstruction	\$309.00	\$318.00	\$328.00	51-200 lineal ft.
Curb & gutter removal & reconstruction	\$309.00	\$318.00	\$328.00	Plus \$50 for each 100 sq. ft. over 200 lineal ft.
Curb drain	\$69.00	\$71.00	\$73.00	Flat Fee
Paved Excavation	\$261.00	\$269.00	\$277.00	0-50 lineal feet
Paved Excavation	\$351.00	\$362.00	\$373.00	51-200 lineal feet
Paved Excavation	\$376.00	\$387.00	\$399.00	Plus \$55 for each 100 lineal foot over 200 lineal ft.
Paving Fee	\$2,116.00	\$2,179.00	\$2,244.00	flat fee
Preliminary Project Review	\$322.00	\$332.00	\$342.00	Per review
Sidewalk Inspection	\$116.00	\$119.00	\$123.00	0-250 sq. ft.
Sidewalk Inspection	\$190.00	\$196.00	\$202.00	251-500 sq. ft.
Sidewalk Inspection	\$190.00	\$196.00	\$202.00	Plus \$55 for each 100 sq. ft. over 500 sq. ft.
Unpaved Excavation	\$327.00	\$337.00	\$347.00	0-50 lineal feet
Unpaved Excavation	\$351.00	\$362.00	\$373.00	51-100 lineal feet
Unpaved Excavation	\$351.00	\$362.00	\$373.00	Plus \$50 for each 100 lf. over 200 lf.
Unpaved Excavation	\$383.00	\$394.00	\$406.00	Over 200 lineal ft.; Plus \$55 for each 100 sq. ft. over 500 lineal ft.
Public Improvement Inspection	\$237.00	\$244.00	\$251.00	Per project Public Improvement valued up to \$10,000
Public Improvement Inspection	\$416.00	\$428.00	\$441.00	Per project, Public Improvement valued from \$10,000 - \$20,000
Public Improvement Inspection	\$655.00	\$675.00	\$695.00	Per project, Public Improvement valued from \$20,000 - \$50,000
Public Improvement Inspection	\$1,520.00	\$1,566.00	\$1,613.00	Per project, Public Improvement valued from \$50,000 - \$100,000
Public Improvement Inspection	\$1,955.00	\$2,014.00	\$2,074.00	Per project, Public Improvement valued from \$100,000 - \$250,000
Public Improvement Inspection	\$2,892.00	\$2,979.00	\$3,068.00	Per project, Public Improvement valued from \$250,000 - \$500,000
Public Improvement Inspection	\$3,797.00	\$3,911.00	\$4,028.00	Per project, Public Improvement valued from \$500,000 - \$1,000,000
Public Improvement Inspection	\$4,948.00	\$5,096.00	\$5,249.00	Per project, Public Improvement valued from \$1,000,000 - \$5,000,000
Public Improvement Inspection	\$5,400.00	\$5,562.00	\$5,729.00	Per project, Public Improvement valued over \$5,000,000
Drainage Plan Check	\$475.00	\$489.00	\$504.00	Per check
Drainage Plan Check	\$188.00	\$194.00	\$200.00	Per single lot inspection (tracts use grading inspection fees, above)
Improvement Construction Plan Check & Insp. - Parcel maps	→	→	→	2.5% of the cost of onsite improvements
Improvement Construction Plan Check & Insp. - Tract maps	→	→	→	2.5% of cost of the offsite improvements
Review of Project Extension	\$113.00	\$116.00	\$119.00	Per review hour - staff level
Review of Project Extension	\$208.00	\$214.00	\$220.00	Per extension - City Council level
Encroachment Permit Underground	\$208.00	\$214.00	\$220.00	Per permit
Encroachment Permit Fence/Wall/Irrigation	\$227.00	\$234.00	\$241.00	Per permit

All Fees Effective July 1 to June 30 of Fiscal Year

APPENDIX Q

COMPLETED URBAN WATER MANAGEMENT PLAN CHECKLIST

Table I-2 Urban Water Management Plan checklist, organized by subject

No.	UWMP requirement ^a	Calif. Water Code reference	Additional clarification	UWMP location
PLAN PREPARATION				
4	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.	10620(d)(2)		Chap 1.2.1; p 1-2, 1-3; Table 1; Appendix C
6	Notify, at least 60 days prior to the public hearing on the plan required by Section 10642, any city or county within which the supplier provides water that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. Any city or county receiving the notice may be consulted and provide comments.	10621(b)		Chap 1.2.2; p 1-3; Appendix D
7	Provide supporting documentation that the UWMP or any amendments to, or changes in, have been adopted as described in Section 10640 et seq.	10621(c)		Chap 1.3.1, 1.3.2; p 1-5; Appendix E
54	Provide supporting documentation that the urban water management plan has been or will be provided to any city or county within which it provides water, no later than 60 days after the submission of this urban water management plan.	10635(b)		Chap 1.2.3; p 1-3, 1-4
55	Provide supporting documentation that the water supplier has encouraged 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.	10642		Chap 1.2.4; p 1-4
56	Provide supporting documentation that the urban water supplier made the plan available for public inspection and held a public hearing about the plan. For public agencies, the hearing notice is to be provided pursuant to Section 6066 of the Government Code. The water supplier is to provide the time and place of the hearing to any city or county within which the supplier provides water. Privately-owned water suppliers shall provide an equivalent notice within its service area.	10642		Chap 1.2.4; p 1-4; Appendix D
57	Provide supporting documentation that the plan has been adopted as prepared or modified.	10642		Chap 1.3.2; p 1-5; Appendix E
58	Provide supporting documentation as to how the water supplier plans to implement its plan.	10643		Chap 1.3.3; p 1-5, 1-6

No.	UWMP requirement ^a	Calif. Water Code reference	Additional clarification	UWMP location
59	Provide supporting documentation that, in addition to submittal to DWR, the urban water supplier has submitted this UWMP to the California State Library and any city or county within which the supplier provides water supplies a copy of its plan no later than 30 days after adoption. This also includes amendments or changes.	10644(a)		Chap 1.3.4; p 1-6
60	Provide supporting documentation that, not later than 30 days after filing a copy of its plan with the department, the urban water supplier has or will make the plan available for public review during normal business hours	10645		Chap 1.3.5; p 1-6
SYSTEM DESCRIPTION				
8	Describe the water supplier service area.	10631(a)		Chap 2.2.1; p 2-6
9	Describe the climate and other demographic factors of the service area of the supplier	10631(a)		Chap 2.2.2, 2.3.2; p 2-6, 2-7; Tables 2, 3
10	Indicate the current population of the service area	10631(a)	Provide the most recent population data possible. Use the method described in "Baseline Daily Per Capita Water Use." See Section M.	Chap 2.3.1; p 2-7; Table 4
11	Provide population projections for 2015, 2020, 2025, and 2030, based on data from State, regional, or local service area population projections.	10631(a)	2035 and 2040 can also be provided to support consistency with Water Supply Assessments and Written Verification of Water Supply documents.	Chap 2.3.1; p 2-7; Table 4
12	Describe other demographic factors affecting the supplier's water management planning.	10631(a)		Chap 2.3.2; p 2-7
SYSTEM DEMANDS				
1	Provide baseline daily per capita water use, urban water use target, interim urban water use target, and compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.	10608.20(e)		Chap 3.2; p 3-2 – 3-10; Table 8
2	<i>Wholesalers:</i> Include an assessment of present and proposed future measures, programs, and policies to help achieve the water use reductions. <i>Retailers:</i> Conduct at least one public hearing that includes general discussion of the urban retail water supplier's implementation plan for complying with the Water Conservation Bill of 2009.	10608.36 10608.26(a)	Retailers and wholesalers have slightly different requirements	Chap 3.4; p 3-10, 3-11; Appendix D

No.	UWMP requirement ^a	Calif. Water Code reference	Additional clarification	UWMP location
3	Report progress in meeting urban water use targets using the standardized form.	10608.40		Chap 3.5; p 3-11
25	Quantify past, current, and projected water use, identifying the uses among water use sectors, for the following: (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, conjunctive use, and (I) agriculture.	10631(e)(1)	Consider 'past' to be 2005, present to be 2010, and projected to be 2015, 2020, 2025, and 2030. Provide numbers for each category for each of these years.	Chap 3.1.1; p 3-1, 3-2; Tables 5, 6, 7
33	Provide documentation that either the retail agency provided the wholesale agency with water use projections for at least 20 years, if the UWMP agency is a retail agency, OR, if a wholesale agency, it provided its urban retail customers with future planned and existing water source available to it from the wholesale agency during the required water-year types	10631(k)	Average year, single dry year, multiple dry years for 2015, 2020, 2025, and 2030.	Chap 3.3; p 3-10
34	Include projected water use for single-family and multifamily residential housing needed for lower income households, as identified in the housing element of any city, county, or city and county in the service area of the supplier.	10631.1(a)		Chap 3.1.2; p 3-2; Table 7
SYSTEM SUPPLIES				
13	Identify and quantify the existing and planned sources of water available for 2015, 2020, 2025, and 2030.	10631(b)	The 'existing' water sources should be for the same year as the "current population" in line 10. 2035 and 2040 can also be provided.	Chap 4.1; p 4-1, 4-2; Table 9
14	Indicate whether groundwater is an existing or planned source of water available to the supplier. If yes, then complete 15 through 21 of the UWMP Checklist. If no, then indicate "not applicable" in lines 15 through 21 under the UWMP location column.	10631(b)	Source classifications are: surface water, groundwater, recycled water, storm water, desalinated sea water, desalinated brackish groundwater, and other.	Chap 4.2; p 4-2
15	Indicate whether a groundwater management plan been adopted by the water supplier or if there is any other specific authorization for groundwater management. Include a copy of the plan or authorization.	10631(b)(1)		Chap 4.2.1; p 4-3 – 4-8
16	Describe the groundwater basin.	10631(b)(2)		Chap 4.2.2; p 4-8 – 4-14

No.	UWMP requirement ^a	Calif. Water Code reference	Additional clarification	UWMP location
17	Indicate whether the groundwater basin is adjudicated? Include a copy of the court order or decree.	10631(b)(2)		Chap 4.2.1.1, 4.2.1.2; p 4-3 – 4-8; Appendices F, G, H
18	Describe the amount of groundwater the urban water supplier has the legal right to pump under the order or decree. If the basin is not adjudicated, indicate “not applicable” in the UWMP location column.	10631(b)(2)		Chap 4.2.1.1, 4.2.1.2; p 4-3, 4-4
19	For groundwater basins that are not adjudicated, provide information as to whether DWR 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. If the basin is adjudicated, indicate “not applicable” in the UWMP location column.	10631(b)(2)		Not applicable (basin adjudicated)
20	Provide a detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years	10631(b)(3)		Chap 4.2.3; p 4-14, 4-15; Table 9
21	Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped.	10631(b)(4)	Provide projections for 2015, 2020, 2025, and 2030.	Chap 4.2.4; p 4-15 – 4-17; Table 9
24	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.	10631(d)		Chap 4.3; p 4-17, 4-18
30	Include a detailed description of all water supply projects and programs that may be undertaken by the water supplier to address water supply reliability in average, single-dry, and multiple-dry years, excluding demand management programs addressed in (f)(1). Include specific projects, describe water supply impacts, and provide a timeline for each project.	10631(h)		Chap 4.6; p 4-23 – 4-25
31	Describe desalinated water project opportunities for long-term supply, including, but not limited to, ocean water, brackish water, and groundwater.	10631(i)		Chap 4.4; p 4-18
44	Provide information on recycled water and its potential for use as a water source in the service area of the urban water supplier. Coordinate with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area.	10633		Chap 4.5.1; p 4-19, 4-20

No.	UWMP requirement ^a	Calif. Water Code reference	Additional clarification	UWMP location
45	Describe 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.	10633(a)		Chap 4.5.2; p 4-20, 4-21; Tables 10, 11
46	Describe the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.	10633(b)		Chap 4.5.2; p 4-20, 4-21; Tables 10, 11
47	Describe the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.	10633(c)		Chap 4.5.3; p 4-22
48	Describe and quantify the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, indirect potable reuse, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.	10633(d)		Chap 4.5.4; p 4-22
49	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.	10633(e)		Chap 4.5.5; p 4-22
50	Describe the 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.	10633(f)		Chap 4.5.6; p 4-23
51	Provide 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.	10633(g)		Chap 4.5.7; p 4-23
WATER SHORTAGE RELIABILITY AND WATER SHORTAGE CONTINGENCY PLANNING ^b				
5	Describe water management tools and options to maximize resources and minimize the need to import water from other regions.	10620(f)		Chap 5.1.1; p 5-1
22	Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage and provide data for (A) an average water year, (B) a single dry water year, and (C) multiple dry water years.	10631(c)(1)		Chap 5.4.1; p 5-10, 5-11; Table 15
23	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.	10631(c)(2)		Chap 5.1.2; p 5-1, 5-2

No.	UWMP requirement ^a	Calif. Water Code reference	Additional clarification	UWMP location
35	Provide an urban water shortage contingency analysis that specifies stages of action, including up to a 50-percent water supply reduction, and an outline of specific water supply conditions at each stage	10632(a)		Chap 5.4.2; p 5-11 – 5-13; Table 16
36	Provide 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.	10632(b)		Chap 5.4.3; p 5-13; Table 17
37	Identify 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.	10632(c)		Chap 5.2.1; p 5-4, 5-5
38	Identify 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.	10632(d)		Chap 5.2.2; p 5-5, 5-6; Table 12
39	Specify 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.	10632(e)		Chap 5.2.3; p 5-6; Table 13
40	Indicated penalties or charges for excessive use, where applicable.	10632(f)		Chap 5.2.4; p 5-7; Table 14
41	Provide 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.	10632(g)		Chap 5.2.5; p 5-7, 5-8
42	Provide a draft water shortage contingency resolution or ordinance.	10632(h)		Chap 5.2.6; p 5-8, 5-9; Appendices K, L, N
43	Indicate a mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.	10632(i)		Chap 5.4.4; p 5-13, 5-14
52	Provide information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments, and the manner in which water quality affects water management strategies and supply reliability	10634	For years 2010, 2015, 2020, 2025, and 2030	Chap 5.3; p 5-9

No.	UWMP requirement ^a	Calif. Water Code reference	Additional clarification	UWMP location
53	Assess the water supply reliability during normal, dry, and multiple dry water years by comparing 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. Base the assessment on the information compiled under Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.	10635(a)		Chap 5.4.5; p 5-14 – 5-16; Tables 18, 19, 20
DEMAND MANAGEMENT MEASURES				
26	Describe how each water demand management measures is being implemented or scheduled for implementation. Use the list provided.	10631(f)(1)	Discuss each DMM, even if it is not currently or planned for implementation. Provide any appropriate schedules.	Chap 6.1; p 6-1 – 6-9; Table 21
27	Describe the methods the supplier uses to evaluate the effectiveness of DMMs implemented or described in the UWMP.	10631(f)(3)		Chap 6.1; p 6-1 – 6-9
28	Provide 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 ability to further reduce demand.	10631(f)(4)		Chap 6.1; p 6-1 – 6-9
29	Evaluate each water demand management measure that is not currently being implemented or scheduled for implementation. The evaluation should include economic and non-economic factors, cost-benefit analysis, available funding, and the water suppliers' legal authority to implement the work.	10631(g)	See 10631(g) for additional wording.	Chap 6.2; p 6-9 – 6-12
32	Include the annual reports submitted to meet the Section 6.2 requirements, if a member of the CUWCC and signer of the December 10, 2008 MOU.	10631(j)	Signers of the MOU that submit the annual reports are deemed compliant with Items 28 and 29.	Not applicable (not member of CUWCC)

a The UWMP Requirement descriptions are general summaries of what is provided in the legislation. Urban water suppliers should review the exact legislative wording prior to submitting its UWMP.

b The Subject classification is provided for clarification only. It is aligned with the organization presented in Part I of this guidebook. A water supplier is free to address the UWMP Requirement anywhere with its UWMP, but is urged to provide clarification to DWR to facilitate review.