

**City of Santa Barbara  
Water Management Plan  
2008 Criteria**

**Date of first draft – February 28, 2011  
Date of revised final – March 30, 2012**

# Index

	<u>Page</u>
Section 1: Description of the City .....	
Section 2: Inventory of Water Resources .....	
Section 3: Best Management Practices for Urban Contractors .....	
Attachment A City Facilities Map .....	
Attachment B City Water-Related Rules and Regulations .....	
Attachment C City Rate Table & Sample Water Bills .....	
Attachment D City Water Shortage Plan .....	
Attachment E Map of City Groundwater Facilities .....	
Attachment F Annual Potable Water Quality Report .....	
Attachment G Water Conservation Program Description .....	

## Section 1: Description of the City

City Name: City of Santa Barbara

Contact Name: Alison Jordan

Title: Water Conservation Coordinator

Telephone: (805) 564-5574

E-mail: ajordan@SantaBarbaraCA.gov

Web Address www.SantaBarbaraCA.gov/water

### A. History

1. Date City formed: April 9, 1850      Date of first Reclamation contract: 1953  
 Original size (acres): 8,000      Current year (last complete calendar year): 2010

#### 2. Current size, population, and irrigated acres

	(enter data year)
Size (acres)	12,636
Population served	95,129

#### 3. Water supplies received in current year (2010)

Water Source	AF
Federal urban water	6,887
State water	734
Other Wholesaler	0
Local surface water (Gibraltar/Devils Canyon)	3,222
City ground water (incl. Mission Tunnel infiltration)	2,481
Banked water	0
Transferred water	0
Recycled water (includes only the actual recycled water component, not potable blend water) <sup>1</sup>	146
Other	NA
<i>Total</i>	13,470

<sup>1</sup> The City blends potable water into the recycled water to maintain water quality. The supply amount shown for recycled water includes only that water that is actually supplied from the water recycling facility. This is to avoid double counting the potable blend water that is counted as part of the potable water supplies received.

4. Annual entitlement under each right and/or contract

	<i>AF</i>	<i>Source</i>	<i>Contract #</i>	<i>Availability period(s)</i>
<i>Reclamation Urban</i>	8,277 AFY	Cachuma Project	175r-1802R	Continuous, subject to Cachuma Project operating agreements
<i>SWP</i>	3,300 AFY	State Water facilities	Water Supply Agreement between City and CCWA, dated 9-3-1991 (City Agreement No. 16,162)	Continuous, subject to availability of SWP deliveries
<i>Gibraltar Reservoir</i>	~5,000 AFY	Santa Ynez River	Per <i>Gin Chow Judgment</i> , current operation pursuant to Upper Santa Ynez River Operations Agreement (City Agreement No. 15,070)	As available, as provided in USYROA.
<i>Mission Tunnel</i>	Historical average infiltration of 1,125 AFY	Infiltration of groundwater to Mission Tunnel	Pre-1914 water right	Continuous
<i>Devils Canyon Creek</i>	Historical diversions range from 0 to 557 AFY	Santa Ynez River	Pre-1914 water right	Typically available only during winter
<i>Groundwater</i>	Historical pumping of approx. 1,000 AFY	Storage Units No. 1 & No. 3 of the Santa Barbara basin; and Foothill basin	Historical pumping record	Managed conjunctively; lower pumping during wet years; maximum pumping during severe droughts

5. *Anticipated land-use changes*

In December 2011, the City adopted a General Plan update that included evaluation of land use changes and projected growth. The service area is primarily residential and commercial uses are predominantly in the retail, food, and tourist industries. The City is largely ‘built-out’ and limited new development is trending toward higher density, mixed-use projects.

## B. Location and Facilities

See Attachment A for points of delivery, conveyance system, storage facilities, wells, and water quality monitoring locations

### 1. Incoming flow locations and measurement methods

<i>Location Name</i>	<i>Physical Location</i>	<i>Type of Measurement Device</i>	<i>Accuracy</i>
Cater Influent Meter - Cater Treatment Plant (from Lake Cachuma & Gibraltar Reservoir)	1150 San Roque Road (upstream of Reservoir #13 on Attachment A)	36" Venturi Meter	+/- 1% accuracy
Sheffield Pump Station (from South Coast Conduit)	Adjacent to 2375 Foothill Road (east of Reservoir #6 on Attachment A)	24" Venturi Meter	+/- 1% accuracy
La Vista Reservoir (from Goleta Water District)	Adjacent to 1020 La Vista Road (Reservoir #8 on Attachment A)	6" Magnetic Flow Meter	+/- 1% accuracy
Los Robles Well Station (groundwater pumping)	Via Diego at Via Rosa (Well #3 on Attachment A)	6" Magnetic Flow Meter	+/- 1% accuracy
Hope Avenue Well Station (groundwater pumping)	Hope Avenue, north of Calle Esperanza (Well #1 on Attachment A)	6" Magnetic Flow Meter	+/- 1% accuracy
San Roque Park Well Station (groundwater pumping)	165 Canon Drive (Well #2 on Attachment A)	6" Magnetic Flow Meter	+/- 1% accuracy
Currently inactive flow inputs due to rehabilitation/ construction work:	Ortega Groundwater Treatment Plant Corporation Yard Well Station City Hall Well Station Ortega Park Well Station Vera Cruz Park Well Station	NA	NA

### 2. Current year Urban Distribution System (Miles of Pipe – Total is 335 miles of pipe)

<i>Cast Iron</i>	<i>PVC</i>	<i>Ductile Iron</i>	<i>Steel</i>	<i>AC</i>	<i>Other</i>
141	100	48	26	12	8

3. *Storage facilities (tanks, reservoirs, regulating reservoirs)*

<i>Name</i>	<i>Type</i>	<i>Capacity (AF)</i>	<i>Distribution or Spill</i>
Lake Cachuma (regional)	Raw water storage	186,000	Spill
Gibraltar Reservoir	Raw water storage	5,250	Spill
Reservoir #1	Treated water storage	3.5	Distribution
Reservoir #2	Treated water storage	4.4	Distribution
Cater Reservoir	Treated water storage	15.5	Distribution
East Reservoir	Treated water storage	3.1	Distribution
El Cielito Reservoir	Treated water storage	3.1	Distribution
Escondido Reservoir (out of service)	Treated water storage	13.5	Distribution
Hope Reservoir	Treated water storage	3.1	Distribution
La Mesa Reservoir	Treated water storage	4.6	Distribution
La Vista Reservoir	Treated water storage	7.1	Distribution
Sheffield Reservoirs (2)	Treated water storage	40.0	Distribution
Skofield Reservoir	Treated water storage	1.8	Distribution
Tunnel Road Reservoir	Treated water storage	3.1	Distribution
Vic Trace Reservoir	Treated water storage	30.1	Distribution

4. *Restrictions on water source(s)*

<i>Source</i>	<i>Restriction</i>	<i>Cause of Restriction</i>	<i>Effect on Operations</i>
Gibraltar Reservoir	Periodic turbidity problems following precipitation events	Water quality degradation	Temporarily reduce or suspend deliveries from Gibraltar
All surface water	Manage supplies in preparation for potential sustained drought	Typical 5-year critical drought period reduces surface water deliveries	Shift operations to increase deliveries of State Water and increase groundwater pumping

5. *Proposed changes or additions to facilities and operations for the next 5 years*

- Ongoing Water Main Replacement Program: minimizes water loss due to breaks and avoids a backlog of deferred maintenance in the distribution system
- Capital Maintenance Program on distribution system pump stations: pump & motor replacements and telemetry upgrades
- Construct Advanced Treatment Project at Cater Water Treatment Plant: aimed at meeting more stringent Disinfection Byproduct Rules; involves addition of ozone treatment at the front end of the water treatment plant to reduce the amount of dissolved organic material in raw water
- Rehabilitate the Ortega Groundwater Treatment Plant serving Storage Unit No. 1 wells: updates treatment technology to address high levels of sulfides in groundwater
- Construct new well to replace Corporation Yard Well; replacement for failed well
- Implement “Pass Through” operations mode under the Upper Santa Ynez River Operations Agreement: initiate a Warren Act contract to provide for storage of the City’s Gibraltar Water in Lake Cachuma, pursuant to the 1989 Upper Santa Ynez River Operations Agreement; operations under the agreement to date have not involved storage of water in Lake Cachuma.

- Investigate water banking opportunities to use available State Water Project deliveries to improve reliability during severe drought: aims to implement conjunctive management of the City's State Water Project supplies by developing agreements to store available water in groundwater banks for later use during dry periods.

## C. Topography and Soils

### 1. Topography of the City and its impact on water operations and management

The City borders the Pacific Ocean to the south and extends northward into the foothills of the Santa Ynez Mountains. Elevation ranges from sea level to approximately 1100 feet. The City's distribution system is designed to be primarily gravity fed, with some exceptions. In the case of those exceptions, pumping stations are used instead.

## D. Climate

### 1. General climate of the City service area

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Total/Avg
<i>Avg Precip.</i>	3.9	4.8	2.5	1.4	0.6	0.1	0.0	0.1	0.1	0.7	1.3	3.2	19.0
<i>Avg Temp (F)</i>	54.2	54.6	56.3	57.7	60.3	62.4	64.8	65.5	64.5	61.6	57.6	53.5	59.4
<i>Avg Max Temp</i>	64.9	64.5	66.2	67.7	69.5	71.0	74.4	75.8	75.2	72.7	68.9	64.3	69.6
<i>Avg Min Temp</i>	44.9	45.7	46.9	48.4	52.1	55.0	57.5	57.5	56.3	52.6	47.7	44.5	50.8
<i>Total ETo (in)</i>	1.8	2.2	3.6	4.6	5.0	5.0	5.5	5.3	4.0	3.1	2.1	1.7	43.8

Weather station ID CIMIS Station #107

Data period: Year 1994 to Year 2010

Average wind velocity 2.9 mph

Average annual frost-free days: 360

### 2. Impact of microclimates on water management within the service area

None

## E. Natural and Cultural Resources

### 1. Natural resource areas within the service area

<i>Name</i>	<i>Estimated Acres</i>	<i>Description</i>
Pacific Ocean	Approx. 200 acres	Beach areas and related ocean resources along approximately 7 miles of coastline on the Santa Barbara Channel
Sycamore, Mission, and Arroyo Burro Creeks	Approx. 250 acres	Creeks draining three south sloping watersheds of the Santa Ynez Mountains
Visual Resources	NA	Generally scenic areas including ocean and mountain views

2. *Description of City management of these resources in the past or present*

The Water Resources Division is not directly responsible for the management of natural, cultural, or recreational resources. Other City departments administer these efforts. For example, watershed management is coordinated via the Creeks Division within the Parks & Recreation Department.

3. *Recreational and/or cultural resources areas within the service area*

<i>Name</i>	<i>Estimated Acres</i>	<i>Description</i>
City Parks System	1,885	56 City parks, including a regional park, passive open spaces, neighborhood parks, sports fields, and beach parks
Santa Barbara City College	90	Local and regional sports facilities
Santa Barbara School District	Citywide	Neighborhood sports fields and gyms
Downtown Cultural Arts & Entertainment District	250	Various venues supporting a variety of cultural activities, including theater, film, musical performances, and lectures
Santa Barbara Mission	25	Established in 1786 by Father Junipero Serra
Historic Design/Preservation Districts	855	El Pueblo Viejo, Lower Riviera Special Design District, Riviera Campus Design District, Brinkerhoff Avenue Landmark District

## **F. Operating Rules and Regulations**

1. *Operating rules and regulations*

See Attachment B, City Rules and Regulations (water related)

2. *Policies on water transfers by the City and its customers*

In most all cases, the City Water Resources Division is the water purveyor for properties within the City limits. In some cases, agreements for service of City areas by neighboring agencies have been developed to provide for cost effective service. An example is the 1982 Overlap Agreement between the City and the neighboring Goleta Water District by which the City and District cooperate to exchange water as needed to provide service in an area of numerous small pockets of unincorporated land. Water exchanges at the retail and utility level are reconciled monthly to keep each agency whole. In addition to formal agreements, the City works cooperatively with neighboring agencies to provide for service to isolated pockets of customers that cannot be practically served by the jurisdiction within which the property lies. To a limited extent, groundwater is pumped by individual property owners for on-site use.

## **G. Water Measurement, Pricing, and Billing**

1. *Urban Customers*

- a. *Total number of connections* 26,504
- b. *Total number of metered connections* 26,504
- c. *Total number of connections not billed by quantity* 0

- d. Percentage of water that was measured at delivery point 100%
- e. Percentage of delivered water that was billed by quantity 91%
- f. Measurement device table

Meter Size and Type	Number	Accuracy (+/- percentage)	Reading Frequency (Days)	Calibration Frequency (Months)	Maintenance Frequency (Months)
5/8-3/4" (Positive Displacement)	20,869	+/-1.5%	30	Replacement being considered in conjunction with potential AMR program	
1" (Velocity/Single Jet)	3,901	+/-1.5%	30	5-year meter replacement program has just been completed on all these meters, to improve reading accuracy at low flows and more accurately measure metered sales. Maintenance is on an as needed basis, per meter reading exception reports.	
1 1/2" (Velocity/Single Jet)	787	+/- 1.5%	30		
2" (Velocity/Single Jet)	883	+/- 1.5%	30		
3" (Velocity/Single Jet)	33	+/- 1.5%	30		
4" (Velocity/Single Jet)	16	+/- 1.5%	30		
6" (Velocity/Single Jet)	5	+/- 1.5%	30		
8" (Velocity/Single Jet)	1	+/- 1.5%	30		
10" (Velocity/Single Jet)	1	+/- 1.5%	30		
Compound (Combination)	8	+/- 1.5%	30		
Turbo	0				
Other (define)	0				
Total	26,504				

Several small scale AMR pilot projects have been completed or are underway to test effectiveness. Handheld computers have been upgraded and currently possess remote-read capability. Meter manufacturer and model will be selected based on results of pilot studies. Frequency of meter calibration will be based on manufacturer's recommendations.

## 2. Urban Customers

### a. Current year urban water charges – including rate structures and billing frequency

See Attachment C, Water Rate Table & Sample City Water Bills, for current year table of unit rates and allotments by customer class and sample water bill.

### b. Annual charges collected from customers (current year data)

Fixed Charges			
Charges (\$/unit) (Prorated for FY 10 & FY 11 to reflect CY 2010)	Charge units (Meter Size)	Units billed during year (Meters)	\$ collected (\$ times units)
\$12.13	5/8"	19,456	\$2,832,015
\$18.23	3/4"	1,413	\$309,108
\$30.34	1"	3,901	\$1,420,276
\$60.67	1 1/2"	787	\$572,967
\$97.10	2"	883	\$1,028,872
\$194.19	3"	33	\$76,899
\$303.42	4"	16	\$58,257
\$606.84	6"	13	\$94,667
\$970.13	8"	1	\$11,642
\$1,395.72	10"	1	\$16,749
Out-of-City Surcharges			\$76,669
Total:		26,504	\$6,498,121

<i>Volumetric charges</i>			
<i>Charges (\$ unit)</i>	<i>Charge units</i>	<i>Units billed during year (HCF)</i>	<i>\$ collected (\$ times units)</i>
Ranges from \$1.45/HCF to 5.16/HCF, with out-of-City customers subject to 30% surcharge (see rate and block allocation itemization in Attachment C)	HCF	5,126,647	\$21,009,044

*c. Water-use data accounting procedures*

See Attachment C, Water Rate Table & Sample City Water Bills. Metered sales reports are prepared semi-annually to track the metered sales ratio (ratio of metered customer sales to produced water). The City has recently completed implementation of new utility billing system software allowing long-term storage of billing and consumption data. Monthly revenue is tracked against the average of current and prior month production (to reflect lag in sales revenue compared to production).

## **H. Water Shortage Allocation Policies**

*1. Current year water shortage policies or shortage response plan - specifying how reduced water supplies are allocated*

The water supply condition is a “normal” year where supplies are adequate for all reasonable uses. However, customers are at all times urged to take advantage of many conservation opportunities and are motivated by an inclining block rate structure. Under drought conditions, rates are increased and allotments reduced to reinforce the need for additional extraordinary cutback in use.

See Attachment D, City Water Shortage Plan

*2. Current year policies that address wasteful use of water and enforcement methods*  
See Section 4.A.1-1.1

## Section 2: Inventory of Water Resources

### A. Surface Water Supply

1. *Acre-foot amounts of surface water delivered to the water purveyor by each of the purveyor's sources* (See Water Inventory Table, Table 1 for monthly data)

Deliveries from Lake Cachuma:	6,887 AF
Deliveries from Gibraltar Reservoir:	3,222 AF
Deliveries of State Water:	<u>734 AF</u>
Total Surface Water Deliveries:	10,843 AF

2. *Amount of water delivered to the City by each of the City's sources for the last 10 years*  
See Water Inventory Tables, Table 8

### B. Ground Water Supply

1. *Acre-foot amounts of ground water pumped and delivered by the City (Calendar Year 2010)*

Pumped Groundwater Deliveries:	1,191 AF
Mission Tunnel Infiltration:	<u>1,290 AF</u>
Total Groundwater Deliveries:	2,481 AF

2. *Ground water basin(s) that underlies the service area*

<i>Name</i>	<i>Size (Square Miles)</i>	<i>Usable Capacity (AF)</i>	<i>Safe Yield (AF/Y)</i>
Storage Unit No. 1, SB Basin	7.0	10,000	800
Storage Unit No. 3, SB Basin	2.1	7,500	100
Foothill Basin	4.5	6,000	900

3. *Map of City-operated wells and managed ground water recharge areas*  
See Attachment E, City Map of Groundwater Facilities

4. *Description of conjunctive use of surface and ground water*

The storage capacities of the City's groundwater basins are limited, but groundwater is an important component of the overall water supply plan. Conjunctive use consists of pumping at or below the perennial basin yields in normal years and increased pumping during extended dry periods to offset reductions in surface water supplies. The design drought has been a 5-year period of below average rainfall, resulting in reduction in deliveries from Lake Cachuma and Gibraltar Reservoir. Groundwater pumping of up to 4,150 AFY from Storage Unit No. 1 and the Foothill Basin is used to maintain adequate supplies, based on an assumed usable storage volume of 16,000 AF. Desalination could be used in the event of prolonged drought, and for recovery of groundwater levels following drought.

5. *Ground Water Management Plan*

The City has managed groundwater pursuant to the adopted Long-Term Water Supply Management Program (1994) and does not have a formal groundwater management plan. The 1994 plan has recently been updated and includes a more comprehensive approach to groundwater management based on a three-year project with USGS to update modeling of the

City's basins. Particular attention is being paid to optimal strategies for managing seawater intrusion and an existing two-dimensional model is being updated to a three-dimensional model to more accurately model intrusion impacts. The City's 2011 Long Term Water Supply Plan is posted on line at: <http://www.santabarbaraca.gov/Resident/Water/Rates/Documents.htm>. The City is also working with the California Department of Water Resources to post groundwater level measurements under the California Statewide Groundwater Elevation Monitoring (CASGEM) Online System. The monitoring plan is expected to be complete during the current fiscal year.

#### 6. *Ground Water Banking Plan*

The City's groundwater banking plan is equivalent to the conjunctive management program described in Item 4 above. In addition, regional banking opportunities are being investigated to augment the limited storage and recharge capacity of local basins, and to optimize the use of available Table A deliveries from the State Water Project.

### **C. Other Water Supplies**

#### 1. *"Other" water used as part of the water supply*

State Water Project: The City holds a Table A amount of 3,300 AFY, which is administered by the Central Coast Water Authority. A minimum delivery amount of approximately 600 AFY is defined in an "Exchange Agreement" with the Santa Ynez River Water Conservation District, Improvement District No. 1. Deliveries in excess of that amount are taken as needed and as available. Calendar year 2010 deliveries were 734 AF.

Recycled Water: The City has constructed two phases of its Water Reclamation Project, serving a connected demand of 800 AFY. Most usage is for irrigation of parks, playgrounds, schools, and golf courses. A number of public facilities also use recycled water for toilet flushing. Blending of potable water is used to meet targeted levels of mineral content. Alternatives to blending are being investigated in the event water supply constraints preclude use of potable water blending.

Desalination: During the severe drought of 1987-1991, the City constructed a seawater desalination facility. The current capacity is 3,125 AFY, though it has not been needed in recent years due to adequate surface water supplies and reduced demand. It is available for use if needed in future droughts and is retained in the City's water supply plan for that purpose.

### **D. Source Water Quality Monitoring Practices**

#### 1. *Potable Water Quality (Urban only)*

See Attachment F – City Annual Water Quality Report

## E. Water Uses within the City

### 1. Urban use by customer type in current year

<i>Customer Type</i>	<i>Number of Connections</i>	<i>AF</i>
<i>Single-family</i>	16,920	5,487
<i>Multi-family</i>	6,126	2,843
<i>Commercial</i>	2,530	1,974
<i>Industrial</i>	56	249
<i>Institutional (included with Commercial)</i>	N/A	0
<i>Potable Irrigation</i>		
<i>Residential</i>	452	285
<i>Commercial</i>	133	72
<i>Recreation</i>	144	150
<i>Agricultural</i>	59	92
<i>Wholesale</i>	N/A	0
<i>Recycled</i>	84	617
<i>Actual M&amp;I Water Sales:</i>	26,504	11,769
<i>Process Water to El Estero Wastewater TP</i>		245
<i>Other Uses per Table 6</i>		224
<i>Total Uses</i>		12,238
<i>Unaccounted Water</i>		1,232
<i>Total Water Supply</i>		13,470
<i>Percent Unaccounted Water</i>		9%

Notes:

<sup>1</sup> A portion of the potable water supply is used as blend water to maintain water quality in the recycled water system. This is a no cost transfer because the two systems are operated by the same fund. Blend water is included in the metered usage by the Recycled customer class and the wastewater treatment plant process water usage.<sup>2</sup> Recycled water sales of 617 AF reflect aggregate readings of retail meters measuring water out of the recycled water distribution system. The value of 594 AF in the following table reflects recycled water metered into the recycled water distribution system. Variance between these two numbers reflects variation in time of meter readings (end of month for production versus during the month for retail readings) and variation between a single production meter and multiple retail meters.

### 2. Urban Wastewater Collection/Treatment Systems serving the service area – current year

<i>Treatment Plant</i>	<i>Treatment Level (1, 2, 3)</i>	<i>AF</i>	<i>Disposal to / uses</i>
El Estero Wastewater Treatment Plant – Tertiary Treatment:	3	594	Recycled water distribution system
EEWTP – Secondary Effluent	2	7,980	Pacific Ocean discharge, 1.5 miles offshore
	Total	8,574	
Total discharged to ocean and/or saline sink		7,980	

3. Ground water recharge/management in current year (Table 6)

<i>Recharge Area</i>	<i>Method of Recharge</i>	<i>AF</i>	<i>Method of Retrieval</i>
Mission Creek	Discharge into Mission Creek at South Portal of Mission Tunnel for groundwater recharge	28	Pumping from Storage Unit No. 1 well field
	Total	28	

4. Transfers and exchanges into or out of the service area in current year (Table 6)

<i>From Whom</i>	<i>To Whom</i>	<i>AF</i>	<i>Use</i>
City distribution system	Net transfers to Goleta Water District pursuant to the 1982 Overlap Agreement	62	Inter-agency transfer between potable distribution systems.

5. Trades, wheeling, wet/dry year exchanges, banking or other transactions in current year (Table 6)

<i>From Whom</i>	<i>To Whom</i>	<i>AF</i>	<i>Use</i>
Central Coast Water Authority	La Cumbre Mutual Water Company	880	Treatment and conveyance of LCMWC's State Water through the City's distribution system; this water is netted out of water supplies going into the City's distribution system and is reimbursed outside this calculation as well. Therefore it does not show in the Water Balance Inventory below

6. Other uses of water in current year

<i>Other Uses</i>	<i>AF</i>
NA	NA

## **G. Water Accounting (Inventory)**

### *1. Water Supplies Quantified (AF)*

See Tables 1, 2, & 3

### *2. Water Used Quantified (AF)*

See Tables 4 & 6

### *3. Overall Water Inventory*

See Table 6

## Section 3: Best Management Practices for Urban Contractors

### A. Urban BMPs

#### Requirements for Documenting BMP Implementation:

##### 1. Utilities Operations

##### 1.1 Operations Practices

1) Conservation coordinator

Contact information:

Alison Jordan, Water Conservation Coordinator

Email: [ajordan@SantaBarbaraCA.gov](mailto:ajordan@SantaBarbaraCA.gov)

Ph: (805) 564-5574

This position is responsible for implementing the tasks identified in Section A.1.

2) Water waste prevention

a) City Ordinance No. 4558, adopted on February 1989, prohibits the waste of water defined as gutter flooding and failure to repair leaks in a timely manner.

##### Landscape Design Standards.

On August 12, 2008, the City Council adopted the revised Landscape Design Standards for Water Conservation, Resolution No. 08-083. The Landscape Design Standards were originally adopted by resolution of the City Council on June 27, 1989. There has been much progress in irrigation technology and sustainable landscaping practices in the last 19 years; therefore, it was time to bring the standards up to date. Chapters 14.23 and 22.80 of the Santa Barbara Municipal Code require projects that are subject to design review to comply with Landscape Design Standards.

City's New Development Project Administrative Requirements meet all the BMP requirements for prohibiting water waste in new development.

b) City of Santa Barbara coordinates with the County of Santa Barbara on the County's landscaping requirements for development projects within the County's jurisdiction that receive City water.

c) The City's Legislative Platform includes support of water conservation related legislation.

##### 1.2 Water Loss Control

1) Annually City completes the standard water audit and balance using the AWWA Water Loss software and will submit the completed AWWA Standard Water Audit and Water Balance worksheets in the CUWCC reporting database every reporting period.

2) For each reporting period, City will keep and make available validation for any data reported.

3) City will maintain in-house records of audit results, methodologies, and worksheets for each completed audit period.

4) City keeps records of each component analysis performed, and incorporates results into future annual standard water balances.

5) City, for the purpose of setting the Benchmark:

a) keeps records of intervention(s) performed, including standardized reports on leak repairs, the economic value assigned to apparent losses and to real losses, miles of system surveyed for leaks, pressure reduction undertaken for loss reduction, infrastructure rehabilitation and renewal, volumes of water saved, and costs of intervention(s); and

b) prepares a yearly summary of this information for submission to the CUWCC, during years two through five of implementation, unless extended by the CUWCC.

### 1.3 Metering

1) Annually the City will provide in the CUWCC reporting database confirmation that all new service connections are metered and are being billed by volume of use and provide all data requested for compliance with BMP 1.3.

2) The City meters all customers and has an inclining block rate structure.

3) The City will undertake a feasibility study examining incentive programs to move landscape water uses on mixed-use meters to dedicated landscape meters.

### 1.4 Retail Conservation Pricing

1) Annually the City will provide in the CUWCC reporting database the rate structure in effect for each customer class for the reporting period.

2) Annually the City will provide in the CUWCC reporting database the annual revenue derived from volume charges for each retail customer class, as defined in Section A. (Note: Compliance with BMP 11 will be determined based on the City's total revenue from all retail customer classes.)

3) Annually the City will provide in the CUWCC reporting database the annual revenue derived from monthly or bimonthly meter/service charges for each retail customer class, as defined in Section A.

## *2. Education*

### *2.1 Public Information Programs*

Annually the City will provide in the CUWCC reporting database the required reporting documentation for the City's Public Information Programs which include the following:

**Water Conservation Hotline.** The Hotline handles the incoming calls for the Water Conservation Program. Hotline staff schedule water checkups and provides administrative assistance to the Conservation Program.

**Website.** The City's Water Conservation Programs website is [www.savewatersb.org](http://www.savewatersb.org). Additionally the City promotes the regional water conservation program website, [www.sbwater.org](http://www.sbwater.org).

**Water Conservation Brochures.** Brochures and handouts are distributed both hard copy and via the website on indoor water conservation, efficient irrigation and sustainable landscaping.

**Video Loan.** Videos on sustainable landscaping, water conservation, efficient irrigation, and water supply are available to the public to loan.

Media Campaign. An annual media campaign is implemented in conjunction with the Santa Barbara County Water Agency and funding from water purveyors countywide..

Water Bill Message. A monthly water conservation message is printed directly on the water bill.

Demonstration Gardens. The Water Conservation Program has two low-water using demonstration gardens, at Alice Keck Park Memorial Garden in conjunction with the Parks Department and the Firescape Garden in conjunction with the Fire Department.

Garden Wise Guys. Garden Wise Guys a thirty-minute television show about designing & maintaining a sustainable landscape. The quarterly show is produced by City TV and funded by the Santa Barbara County Water Agency, the City of Santa Barbara Public Works Department, and the Goleta Water District. It is hosted by two local landscape architects: Owen Dell and Billy Goodnick. With a unique sense of humor, the Garden Wise Guys will give viewers the basic information they need to start making changes in their own yard.

Water Wise Gardening for Santa Barbara County CD and Website.

A free “tool” for water wise gardening —a compact disc and website of gardening information tailored to our climate and our need for water conservation, titled "Water Wise Gardening in SB County". Available on CD or online at [www.savewatersb.org](http://www.savewatersb.org) or [www.sbwater.org](http://www.sbwater.org), it includes: extensive database with searchable information on over 1,000 water wise plants; more than 300 photos grouped into garden tours and garden galleries, all from local gardens Countywide; helpful facts, resources, and guidance on gardening design and practices; and links to other useful sustainable gardening sites.

## *2.2 School Education*

Annually the City will provide in the CUWCC reporting database the required reporting documentation for the City’s School Education Programs which include the following:

Water education presentations are given in approximately 90 classes and summer camps per year. Water education materials are provided to schools. Tours of the City’s water treatment facilities with free bus transportation are provided. The City participates in the Annual Water Awareness High School Video Contest.

## *3. Residential*

Annually the City will provide in the CUWCC reporting database the required reporting documentation for the City’s Residential Programs which include the following:

### **Residential Assistance Program**

The City's Water Resources Specialist conducts residential water surveys (water checkups) upon request by water customers. A water checkup includes evaluating all water uses on the property including, and providing recommendations to the customer for improved efficiency including both indoor usage, evaluating irrigation system, and specific recommendations on improvements and upgrades.

### Landscape Water Survey

As an element of the water checkups staff performs site-specific landscape water surveys that include checking the irrigation system for maintenance and repairs, reviewing the irrigation schedule and making recommendations for adjusting program of irrigation controller, providing customer with evaluation results and water savings recommendations.

### Smart Rebates Program

The Smart Rebates Program is co-funded through Proposition 50 grant received by the California Urban Water Conservation Council (CUWCC) and participating water suppliers throughout California. The Program provides rebates for water users to improve their efficiency through appliance and equipment retrofits and replacements. The City is participating for residential customers with high efficiency clothes washer rebates at \$150 and high efficiency toilet rebates at \$100.

#### *4. Commercial, Industrial and Institutional (CII)*

Annually the City will provide in the CUWCC reporting database the required reporting documentation for the City's Commercial Programs which include the following:

### Commercial Survey

The City's Water Resources Specialist conducts commercial water surveys (water checkups) upon request by water customers. A water checkup includes evaluating all water uses on the property including, and providing recommendations to the customer for improved efficiency including both indoor usage, evaluating irrigation system, and specific recommendations on improvements and upgrades. The Level 1 CII surveys (accounts that use less than 5,000 gallons of water per day) are for the simpler CII such as hotels, restaurants, and small schools conducted by City staff. For Level 2 CII surveys, the 100 highest CII water users will be offered a free water survey/evaluation, that will evaluate ways for the business to save water and money. The Level 2 audits would be performed by a trained technical professional. Marketing will be focused to target the high water using accounts (complex sites with higher than 10,000 gallons of water use per day). These Level 2 sites will most likely be done by a contractor and will include a high level of follow up communication and assistance to encourage use of rebates.

### Smart Rebates Program

The Smart Rebates Program is co-funded through Proposition 50 grant received by the California Urban Water Conservation Council (CUWCC) and participating water suppliers throughout California. The Program provides rebates for water users to improve their efficiency through appliance and equipment retrofits and replacements. The City is participating for commercial customers with water broom (high efficiency pavement washers) rebates at \$50 each, high efficiency clothes washer rebates at \$400, high efficiency toilet rebates at \$200, and waterless or high efficiency urinal rebates at \$300. Rebates on additional CII equipment will be considered.

Lodging/Restaurant Industry Program consists of table tents and door hangers encouraging patrons to conserve water for lodging industry as well as educational videos for lodging industry staff. Restaurant Table Cards are provided which inform restaurant customers that water will be served upon request.

## 5. *Landscape*

Annually the City will provide in the CUWCC reporting database the required reporting documentation for the City's Landscape Programs which include the following:

### Smart Landscape Rebate Program

The Smart Landscape Rebate Program offers rebates to increase water efficiency in both the commercial and residential landscapes. Rebates on approved irrigation equipment and landscape materials will be up to 50% of material costs. Rebates are available for up to \$1,000 for single family homes and up to \$2,000 per account serving irrigated area (\$4,000 per site) for commercial, multi-family, and HOAs. Rebate will cover: drip irrigation parts, sprinkler system efficiency retrofits, and rotating sprinkler nozzles; water-wise plants and mulch; laundry to landscape graywater system; and smart irrigation controller. The process is 3 steps: a pre-inspection, a 60 day window to complete the approved projects and then a post-inspection.

### Irrigation Water Surveys

All public and private irrigators of landscapes are eligible for free landscape water surveys and customized report upon request. High water use sites are targeted.

### California Landscape Budgets Program (CLBP)

This program provides monthly water use reports via [www.landscapebudgets.com](http://www.landscapebudgets.com) for the properties served by dedicated irrigation meters and compares the usage to a weather-based water allocation calculation. The goal is to provide education to the customers, as well as monthly reporting, identifying ways to help customers irrigate more efficiently. Currently, all City dedicated landscape irrigation meters billing is based on a water budget calculated from historical evapotranspiration data.

### Green Gardener Program

The City of Santa Barbara and the Santa Barbara County Water Agency began in March 2000 the Green Gardener Program (GGP) along with eleven other partnering agencies and organizations. The GGP trains gardeners in resource efficiency and pollution prevention landscape maintenance practices. In order to be a Green Gardener, gardeners attend a fifteen-week training session (two and half hour class per week) taught in both English and Spanish covering topics including water efficiency, non-point source pollution reduction, fertilizing, integrated pest management, and reduction of air pollution emissions and green waste. A test covering training material is required for Green Gardener status plus annual ongoing educational requirements. This program includes promotion of the Green Gardeners through advertising and a list of gardeners distributed by partnering agencies and on [www.greengardener.org](http://www.greengardener.org). So far, the GGP countywide has trained 1,000 gardeners.

### California Irrigation Management Information System (CIMIS)

Two CIMIS weather stations are owned by the California Department of Water Resources (DWR) are located on the City's Golf Course and the Vic Trace Reservoir. City staff assists in maintenance of the stations. CIMIS is a network of weather stations that automatically read and collect information on wind speed and run, average vapor pressure, air temperature, relative humidity, dew point, solar radiation, soil temperature, and precipitation. The information is transmitted to a central computer data base in Sacramento which gives daily evapotranspiration rates that can be accessed on DWR's website.

### Watering Index and Landscape Watering Calculator

Landscape Watering Calculator: This is an easy-to-use web-based tool that helps estimate the right amount of water to give a landscape. The calculator has been designed to give a weekly irrigation schedule. Information needed is zip code of the site, the type of plants watered by a particular station on the irrigation system, the soil type, and the sprinkler type. Available at [savewatersb.org](http://savewatersb.org)

Watering Index: On many irrigation controllers there is a feature called “water budget”, or seasonal adjust, which one can easily adjust the watering schedule as the weather changes. Set the water budget to the weekly watering index (W.I.) which represents the recommended percentage setting for the water budget feature. The W.I. is normally 100% for much of July and August. Over the course of the year, the W.I. changes to reflect the landscape’s changing need for water as climatic conditions change. As new W.I. values are published weekly, the controller’s water budget feature should be changed to match to current W.I. value. Available at [savewatersb.org](http://savewatersb.org)

### Graywater

The City provides outreach on the use of graywater with handouts, fact sheet, sample plan sheet, workshops and information on the City’s website. City promotes use of graywater in accordance with the California Plumbing Code Chapter 16A.

Landscape Design Standards. On August 12, 2008, the City Council adopted the revised Landscape Design Standards for Water Conservation, Resolution No. 08-083. The Landscape Design Standards were originally adopted by resolution of the City Council on June 27, 1989. There has been much progress in irrigation technology and sustainable landscaping practices in the last 19 years; therefore, it was time to bring the standards up to date. Chapters 14.23 and 22.80 of the Santa Barbara Municipal Code require projects that are subject to design review to comply with Landscape Design Standards.

See Attachment G – City’s Water Conservation Program Description

**B. Provide a 3-Year Budget for Expenditures and Staff Effort for BMPs**

***1. Amount actually spent during current year.***

Fiscal Year	<u>2009-2010</u>	Projected Expenditures	
BMP #	BMP Name	(not including staff hours)	Staff Hours
1.	Utilities Operations		
1.1	Operations Practices	5,000	
1.2	Pricing		
1.3	Metering		
1.4	Water Loss Control		
2.	Education		
2.1	Public Information Programs	\$76,648	
2.2	School Education	\$4,000	
3.	Residential	\$13,397	
4.	CII	\$3000	
5.	Landscape	\$53,411	
	Total	\$155,456	5,200 hours (not tracked by BMP)

**2. Projected budget summary for 2<sup>nd</sup> year.**

Fiscal Year	<u>2010-2011</u>	Projected Expenditures	
BMP #	BMP Name	(not including staff hours)	Staff Hours
1.	Utilities Operations		
1.1	Operations Practices	\$5,000	
1.2	Pricing		
1.3	Metering		
1.4	Water Loss Control		
2.	Education		
2.1	Public Information Programs	\$151,500	
2.2	School Education	\$8,000	
3.	Residential	\$20,000	
4.	CII	\$20,000	
5.	Landscape	\$41,000	
	Total	\$245,500	5,200 hours (not tracked by BMP)

3. Projected budget summary for 3<sup>rd</sup> year.

Year <u>2011-2012</u>		Projected Expenditures	
<u>BMP #</u>	<u>BMP Name</u>	<u>(not including staff hours)</u>	<u>Staff Hours</u>
1.	Utilities Operations		
1.1	Operations Practices	\$5,000	
1.2	Pricing	\$0	
1.3	Metering		
1.4	Water Loss Control		
2.	Education		
2.1	Public Information Programs	\$151,500	
2.2	School Education	\$8,000	
3.	Residential	\$20,000	
4.	CII	\$45,000	
5.	Landscape	\$58,000	
	Total	\$287,500	5,200 hours (not tracked by BMP)

Year of Data  **Enter data year here**

**Table 1**

***Surface Water Supply***

<b>2010 Month</b>	<b>Federal Urban Water (acre-feet)</b>	<b>Federal Agric. Water (acre-feet)</b>	<b>State Water (acre-feet)</b>	<b>Local Water (acre-feet)</b>	<b>Other Water (define) (acre-feet)</b>	<b>Total (acre-feet)</b>
January	718	0	15	0	0	733
February	512	0	14	0	0	526
March	440	0	21	274	0	735
April	635	0	20	156	0	811
May	456	0	80	555	0	1,091
June	410	0	107	509	0	1,026
July	424	0	147	556	0	1,127
August	450	0	160	502	0	1,112
September	449	0	152	490	0	1,091
October	679	0	18	180	0	877
November	851	0	0	0	0	851
December	863	0	0	0	0	863
<b>TOTAL</b>	<b>6,887</b>	<b>0</b>	<b>734</b>	<b>3,222</b>	<b>0</b>	<b>10,843</b>

*Table 2*

***Ground Water Supply***

<b>2010 Month</b>	<b>District groundwtr (acre-feet)</b>	<b>Private groundwater (acre-feet)</b>
January	113	31
February	116	26
March	167	27
April	197	40
May	295	42
June	293	54
July	311	52
August	307	58
September	304	60
October	192	47
November	110	31
December	76	32
<b>TOTAL</b>	<b>2,481</b>	<b>500</b>

\*normally estimated

**Table 3**

**Total Water Supply**

<b>2010 Month</b>	<b>Surface Water Supply (acre-feet)</b>	<b>District Groundwater (acre-feet)</b>	<b>Recycled M&amp;I (acre-feet)</b>	<b>Total District Water Supply (acre-feet)</b>
January	733	113	3	849
February	526	116	2	644
March	735	167	2	904
April	811	197	12	1,020
May	1,091	295	13	1,399
June	1,026	293	25	1,344
July	1,127	311	21	1,459
August	1,112	307	23	1,442
September	1,091	304	27	1,422
October	877	192	7	1,076
November	851	110	7	968
December	863	76	4	943
<b>TOTAL</b>	<b>10,843</b>	<b>2,481</b>	<b>146</b>	<b>13,470</b>

Recycled wastewater is treated urban wastewater that is reused

*Table 4*

*Distribution System*

<b>2010 Area or Line</b>	<b>Length (feet)</b>	<b>Leaks (acre-feet)</b>	<b>Breaks (acre-feet)</b>	<b>Flushing/Fire (acre-feet)</b>	<b>Total (acre-feet)</b>
<b>Cast Iron Pipe</b>	744,480		75	45	120
<b>PVC Pipe</b>	528,000		5	3	8
<b>Ductile Iron Pipe</b>	253,440		2	1	3
<b>Steel Pipe</b>	137,280		2	1	3
<b>AC Pipe</b>	63,360		0	0	0
<b>Other</b>	42,240		0	0	0
					0
					0
					0
					0
					0
<b>TOTAL</b>	<b>1,768,800</b>	<b>0</b>	<b>84</b>	<b>50</b>	<b>134</b>

**Table 6**

**2010 District Water Inventory**

<b>Water Supply</b>	Table 3		13,470
<b>Environmental Consumptive Use</b>		minus	0
<b>Groundwater Recharge</b>	(Perc ponds & recharge wells)	minus	28
<b>Water Exchanges or Transfers</b>	(into or out of the district)	minus / plus	(62)
<b>Flushing / Fire</b>	Table 4b	minus	50
<b>Distribution System Leaks &amp; Breaks</b>	Table 4b	minus	84
<b>Non-Urban (Agricultural) Deliveries</b>	<2,000 AF	minus	0
<b>Water Supply Available for Sale</b>			<b>13,246</b>
<b>2010</b>			
<b>Actual M&amp;I Water Sales</b>	<b>From District Records</b>		<b>11,769</b>
<b>Inside Use</b>	Feb use x 12	minus	7,728
<b>Landscape / Outside Use</b>	(calculated)		4,041

**Table 8**

***Annual Water Quantities Delivered Under Each Right or Contract***

<b>Year</b>	<b>Federal Urban Water (acre-feet)</b>	<b>Federal Agric. Water (acre-feet)</b>	<b>State Water (acre-feet)</b>	<b>Local Water (acre-feet)</b>	<b>Groundwater &amp; Net Recycled (acre-feet)</b>	<b>Total (acre-feet)</b>
2001	5,961	0	0	5,139	2,433	13,533
2002	8,615	0	1,352	1,989	1,712	13,668
2003	6,070	0	1,511	3,909	1,888	13,378
2004	7,033	0	2,124	3,031	1,778	13,966
2005	7,262	0	748	2,801	2,959	13,770
2006	6,024	0	614	4,586	2,774	13,998
2007	11,440	0	550	1,012	2,408	15,410
2008	8,542	0	621	2,932	2,771	14,866
2009	7,975	0	451	2,888	2,557	13,871
2010	6,887	0	734	3,222	2,627	13,470
Total	75,809	0	8,705	31,509	23,907	139,930
Average	7,581	0	871	3,151	2,391	13,993

# CITY OF SANTA BARBARA

## SURFACE WATER RESOURCES, GROUNDWATER SOURCES, PRESSURE ZONES, TRANSMISSION MAINS, STORAGE FACILITIES, PRESSURE REDUCING STATIONS, DISTRIBUTION SAMPLE STATIONS, DISINFECTION BY-PRODUCTS SAMPLING STATIONS



### SURFACE WATER RESOURCES

- ID REFERENCE**
- 1 CATER TREATMENT PLANT
  - 2 GOLETA WATER DISTRICT

### GROUNDWATER WELLS

- WELL ID WELL LOCATIONS**
- 1 HOPE WELL
  - 2 SAN ROQUE WELL
  - 3 LOS ROBLES WELL
  - 4 ALAMEDA WELL

### WATER DISTRIBUTION SYSTEM SAMPLE STATION LOCATIONS

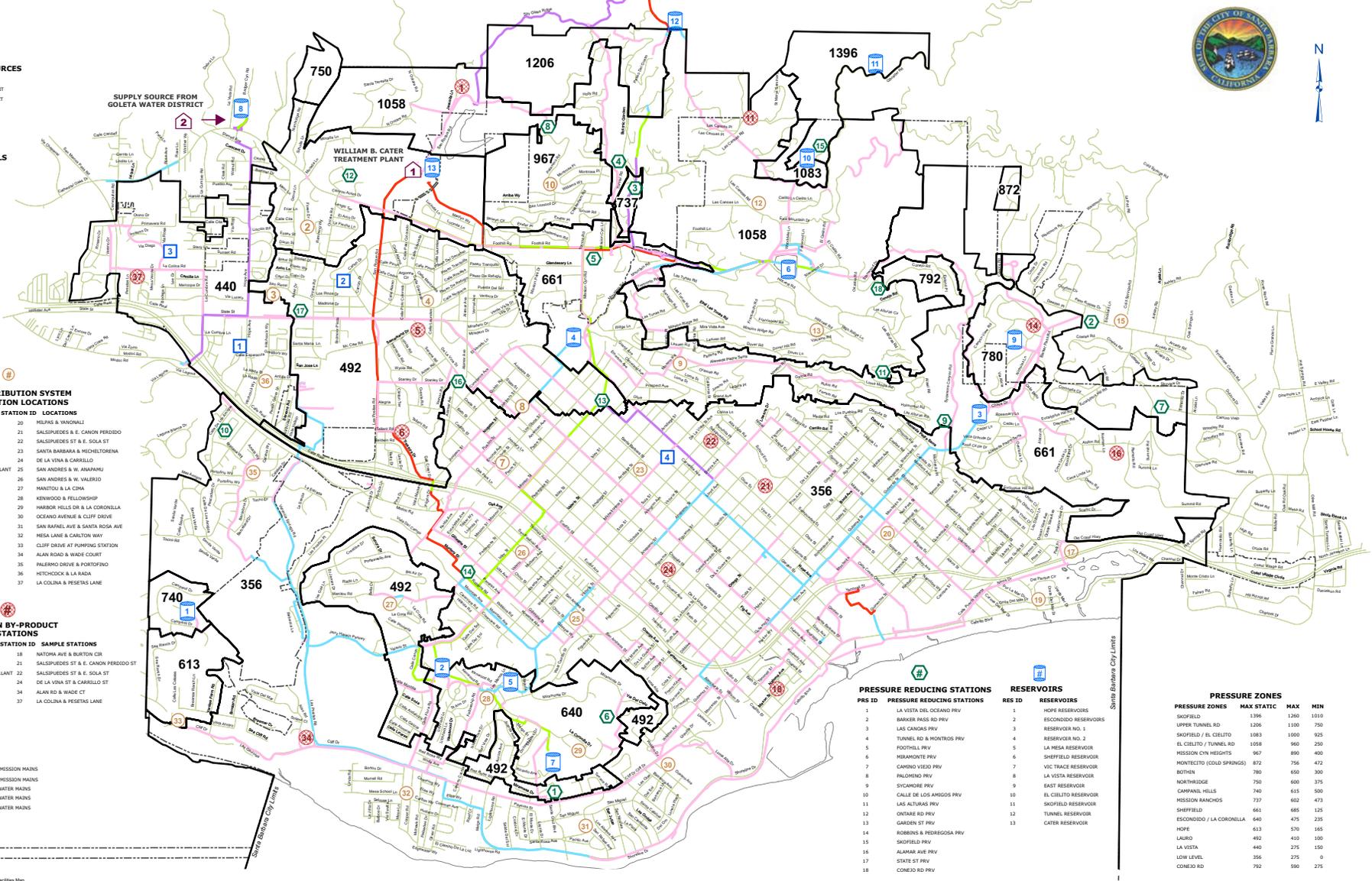
- | STATION ID | LOCATIONS                             | STATION ID | LOCATIONS                       |
|------------|---------------------------------------|------------|---------------------------------|
| 1          | JESUITA LN / SAN ROQUE (TUNNEL)       | 20         | MILPAS & YANONALI               |
| 2          | 528 FOXEN DRIVE                       | 21         | SALSIPUEDES & E. CANON PERDIDO  |
| 3          | 3775 SAW RIBBO DRIVE                  | 22         | SALSIPUEDES ST & E. SOLA ST     |
| 4          | 3074 CALLE ROSALES                    | 23         | SANTA BARBARA & RICHELTHORNA    |
| 5          | DE LA VINA & SAMARKAND                | 24         | DE LA VINA & CARREILLO          |
| 6          | CLINTON TERRACE/TREASURE DR & TALLANT | 25         | SAN ANDRES & W. ANAPAMU         |
| 7          | PADRE WELL STATION                    | 26         | SAN ANDRES & W. VALERIO         |
| 8          | PUBLICO & STATE                       | 27         | MANTUO & LA CIMA                |
| 9          | MORENO RD & A.P.S.                    | 28         | KENWOOD & FELLOWSHIP            |
| 10         | WILLIAMS WY & PALOMINO RD             | 29         | HARBOR HILLS DR & LA CORONILLA  |
| 11         | 1972 LAS CANDAS ROAD                  | 30         | OCEANO AVENUE & CLIFF DRIVE     |
| 12         | 1403 CANON RD & LAS CANDAS LN         | 31         | SAN RAFAEL AVE & SANTA ROSA AVE |
| 13         | HILLCREST & HESSON RIDGE              | 32         | MESA LANE & CANSTON HWY         |
| 14         | SOUTH SIERRA VISTA ROAD               | 33         | CLIFF DRIVE AT PARKING STATION  |
| 15         | SYCAMORE CANYON & COLD SPRINGS        | 34         | ALAN ROAD & WADE COURT          |
| 16         | RAHETTO & ALSTON ROAD                 | 35         | PALERMO DRIVE & PORTOFINO       |
| 17         | COLD COAST HWY & HARBOR VIEW          | 36         | NETCHOCK & LA RADA              |
| 18         | NATOMA & BURTON CIRCLE                | 37         | LA COLINA & PESERAS LANE        |
| 19         | POR LA MAR & ORILLA DEL MAR           |            |                                 |

### DISINFECTION BY-PRODUCT SAMPLE STATIONS

- | STATION ID | SAMPLE STATIONS                       | STATION ID | SAMPLE STATIONS                      |
|------------|---------------------------------------|------------|--------------------------------------|
| 1          | JESUITA LN / SAN ROQUE                | 18         | NATOMA AVE & BURTON CIR              |
| 2          | DE LA VINA ST & SAMARKAND DR          | 21         | SALSIPUEDES ST & E. CANON PERDIDO ST |
| 4          | CLINTON TERRACE/TREASURE DR & TALLANT | 22         | SALSIPUEDES ST & E. SOLA ST          |
| 5          | 1972 LAS CANDAS ROAD                  | 24         | DE LA VINA ST & CARREILLO ST         |
| 14         | S. SIERRA VISTA RD                    | 34         | ALAN RD & WADE CT                    |
| 16         | RAHETTO & ALSTON RD                   | 37         | LA COLINA & PESERAS LANE             |

### Legend

- 36" TRANSMISSION MAINS
- 24" TRANSMISSION MAINS
- 20" - 22" WATER MAINS
- 16" - 18" WATER MAINS
- 12" - 14" WATER MAINS



### PRESSURE REDUCING STATIONS

PRS ID	PRESSURE REDUCING STATIONS
1	LA VISTA DEL OCEANO PRV
2	BANKERS PASS RD PRV
3	LAS CANDAS PRV
4	TUNNEL RD & MONTEROS PRV
5	FOOTHILL PRV
6	HIGHWAY PRV
7	CANINO VIEJO PRV
8	PALOMINO PRV
9	SYCAMORE PRV
10	CALE DE LOS ANGELOS PRV
11	LAS ALTURAS PRV
12	ONTARE RD PRV
13	GARDEN ST PRV
14	ROBBINS & PEDREGOSA PRV
15	SNOWFIELD PRV
17	STATE ST PRV
18	COMIEJO RD PRV

### RESERVOIRS

RES ID	RESERVOIRS
1	HOPE RESERVOIRS
2	ESCONDIDO RESERVOIRS
3	RESERVOIR NO. 1
4	RESERVOIR NO. 2
5	LA MESA RESERVOIR
6	SHEFFIELD RESERVOIR
7	VIC TRACE RESERVOIR
8	LA VISTA RESERVOIR
9	EAST RESERVOIR
10	EL CIELITO RESERVOIR
11	SNOWFIELD RESERVOIR
12	TUNNEL RESERVOIR
13	CATER RESERVOIR

### PRESSURE ZONES

PRESSURE ZONES	MAX STATIC	MAX	MIN
SNOWFIELD	1396	1260	1010
UPPER TUNNEL RD	1206	1100	750
SNOWFIELD / EL CIELITO	1083	1000	925
EL CIELITO / TUNNEL RD	1058	960	250
MISSION CYN HEIGHTS	967	890	400
MONTECITO (COLD SPRINGS)	872	756	472
BOTHEN	780	650	300
NORTHEDGE	750	660	375
CAMPANEL HILLS	740	615	500
MISSION RANCHOS	737	602	473
SHEFFIELD	661	685	125
ESCONDIDO / LA CORONILLA	640	475	235
HOPE	613	570	165
LAURO	492	410	150
LA VISTA	440	275	150
LOW LEVEL	356	275	0
COMIEJO RD	792	590	275

Map Data Provided by WATERWORKS/CD/Construction/Assignments/Water Facilities Map

## TITLE 14

### WATER AND SEWERS

**Chapter: 14.04 Water Definitions**  
**Chapter: 14.06 Board of Water Commissioners**  
**Chapter: 14.08 Connections, Rates and Charges**  
**Chapter: 14.12 Private Fire Service**  
**Chapter: 14.16 Billings and Payment for Water**  
**Chapter: 14.20 Water Regulations**  
**Chapter: 14.23 Reclaimed Water**  
**Chapter: 14.25 Fire Hydrants**  
**Chapter: 14.28 Water Main Extensions**  
**Chapter: 14.32 Wells**

**Chapter: 14.33 Wastewater Fund**  
**Chapter: 14.34 Sewer Definitions**  
**Chapter: 14.36 General Provisions for Sewers**  
**Chapter: 14.40 Sewer Service Charges**  
**Chapter: 14.44 Sewer Connections and Use**  
**Chapter: 14.48 Sewer Permits**  
**Chapter: 14.52 Sewer Extensions**  
**Chapter: 14.56 Natural Watercourses and Storm Drain System**  
**Chapter: 14.60 Gibraltar Reservoir**

#### Chapter 14.04

### WATER DEFINITIONS

Sections:

**14.04.010 Definitions Generally.**  
**14.04.020 Connection.**  
**14.04.030 Consumer.**  
**14.04.040 Customer.**  
**14.04.050 Department.**  
**14.04.051 Account Holder.**  
**14.04.052 Director.**

**14.04.055 Flow Restrictor.**  
**14.04.060 Meter.**  
**14.04.070 Service, Water Service.**  
**14.04.080 Waste.**  
**14.04.090 Water.**  
**14.04.100 Watercourse.**  
**14.04.110 Water Service.**

#### **14.04.010 Definitions Generally.**

Unless the context shall require otherwise, as used in this title the words defined in this chapter shall have the meanings respectively set out opposite them. (Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

#### **14.04.020 Connection.**

"Connection" means a connection of premises with the City water system. (Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

#### **14.04.030 Consumer.**

"Consumer" means a person or entity who uses water. (Ord. 4558, 1989; Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

#### **14.04.040 Customer.**

"Customer" means a person purchasing or receiving water from the City water supply system. (Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

#### **14.04.050 Department.**

"Department" means the City Public Works Department. (Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

#### **14.04.051 Account Holder.**

"Account Holder" means the person or entity responsible for payment for water service at a particular property, as shown in the City's water billing records. (Ord. 4558, 1989.)

**14.04.052 Director.**

"Director" means the Director of the Department of Public Works or his or her designated representative. (Ord. 4558, 1989.)

**14.04.055 Flow Restrictor.**

"Flow Restrictor" means a device for reducing the flow of water through a meter. (Ord. 4558, 1989.)

**14.04.060 Meter.**

"Meter" means a meter furnished by the City and approved for use to measure the amount of City water delivered to a customer. (Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

**14.04.070 Service, Water Service.**

"Service" and "Water Service" mean the service and materials furnished by the City in supplying water to a customer including meter, lateral, connectors and labor. It shall also mean the diameter of a connection. (Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

**14.04.080 Waste.**

"Waste" means any excessive, unnecessary or unwarranted use of water, including but not limited to any use which causes unnecessary runoff beyond the boundaries of any property as served by its meter and any failure to repair as soon as reasonably possible any leak or rupture in any water pipes, faucets, valves, plumbing fixtures or other water service appliances. (Ord. 4558, 1989; Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

**14.04.090 Water.**

"Water" means water supplied by the City water supply system. (Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

**14.04.100 Watercourse.**

"Watercourse" means and includes streams, creeks, arroyos, gulches, washes and the beds thereof, whether dry or containing water. (Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

**14.04.110 Water Service.**

See "Service", Section 14.04.070. (Ord. 2931 §2(part), 1963; prior Code §44.1(part).)

**Chapter 14.06**

**BOARD OF WATER COMMISSIONERS**

**Section:**

**14.06.010 Board of Water Commissioners - Powers and Duties.**

**14.06.010 Board of Water Commissioners - Powers and Duties.**

The Board of Water Commissioners shall have the same powers and duties regarding the Wastewater Fund as it possesses with respect to the Water Fund pursuant to the provisions of Section 813 of Article VIII of the Charter of the City of Santa Barbara. (Ord. 4533, 1988.)

## Chapter 14.08

### CONNECTIONS, RATES AND CHARGES

#### Sections:

<b>14.08.010</b>	<b>New Connections to Mains - Application Required.</b>	<b>14.08.060</b>	<b>New Connections to Mains - Connections Generally.</b>
<b>14.08.020</b>	<b>New Connections to Mains - Contents of Application.</b>	<b>14.08.070</b>	<b>Fees for Service Relocations.</b>
<b>14.08.030</b>	<b>New Connections to Mains - Fee to Accompany Application.</b>	<b>14.08.080</b>	<b>Service Fees for Meters.</b>
<b>14.08.040</b>	<b>New Connections to Mains - Determination of Meter and Service Size.</b>	<b>14.08.090</b>	<b>Water Service Meter Rates at Premises - Monthly Rates.</b>
<b>14.08.045</b>	<b>Effective Date of Revised Rates.</b>	<b>14.08.095</b>	<b>Customer Service Charge.</b>
<b>14.08.050</b>	<b>New Connections to Mains - Fee Schedule.</b>	<b>14.08.130</b>	<b>Meter Test - Replacing Meter.</b>
		<b>14.08.140</b>	<b>Placement Generally and General Treatment of Meters.</b>

#### **14.08.010 New Connections to Mains - Application Required.**

No new connection for any premises shall be made to City water mains or to City water system unless a written application has been properly filed with the Public Works Department, signed by the owner or his agent, upon forms to be furnished by the Public Works Department. (Ord. 3610 §1, 1973.)

#### **14.08.020 New Connections to Mains - Contents of Application.**

The application form referred to by Section 14.08.010 shall be completely filled out and shall state the following information:

- (1) The location where such connection shall be made;
- (2) That the service pipe is laid to within two feet (2') of the curb line of the street;
- (3) That such service pipe is properly equipped with a shutoff approved by the Director of the Public Works Department;
- (4) The size of the meter and service requested. (Ord. 3610 §1, 1973.)

#### **14.08.030 New Connections to Mains - Fee to Accompany Application.**

The application referred to in Sections 14.08.010 and 14.08.020 shall be accompanied by a fee as provided for in Section 14.08.050. (Ord. 3610 §1, 1973.)

#### **14.08.040 New Connections to Mains - Determination of Meter and Service Size.**

The size of any new meter and service and/or reduction in meter size shall be subject to the final determination and approval by the Director of the Public Works Department.

Uniform Plumbing Code requirements will be used as a guide for determining the size where applicable.

Where insufficient information is available to determine the size from the Uniform Plumbing Code, the proper size may be determined on an area basis as follows:

- |                              |                              |
|------------------------------|------------------------------|
| (1) Usable Land Area:        | Service Size:                |
| 10,000 square feet or less   | 5/8 inch by 3/4 inch         |
| 10,000 to 20,000 square feet | 1 inch                       |
| 20,000 to 34,000 square feet | 1-1/2 inch                   |
| 35,000 square feet and over  | 2 inch or larger as required |

(2) Existing services and meters: In cases where the consumption history of a consumer's meter is greater than the average consumption of the next larger size meter, the Director may require the consumer to have installed at his expense the next larger size meter and services.

(3) Change in meter size for any property will not be approved without the written consent of the property owner. (Ord. 4250, 1984; Ord. 3610 §1, 1973.)

#### **14.08.045 Effective Date of Revised Rates.**

The revised rates and schedules imposed by Sections 14.08.050, 14.08.090 and 14.08.095 of this chapter shall become effective as of the commencement of the first complete billing period following the effective date of the ordinance codified herein. (Ord. 3610 §1, 1973.)

**14.08.050 New Connections to Mains - Fee Schedule.**

(a) The service fees for original connections to the City water system and service relocations shall be set by resolution of the City Council.

(b) In addition to the service fees provided for in §14.08.050(a), applicants for original connections to the City water system shall also pay a "buy in" charge as established by resolution of the City Council. This subsection shall be applicable only to the existing water service area at the time of the adoption of this ordinance. (Ord. 3829, 1976; Ord. 3750, 1975; Ord. 3696, 1974; Ord. 3610 §1, 1973; Ord. 2735 §1, 1974.)

**14.08.060 New Connections to Mains - Connections Generally.**

Upon receipt of the application and fee by the Public Works Department, as contemplated by Sections 14.08.010, 14.08.020, 14.08.050 and 14.08.080, premises may be connected to the water mains of the City if found to conform to the provisions of this chapter. (Ord. 3610 §1, 1973.)

**14.08.070 Fees for Service Relocations.**

Fees for City water service relocations shall be identical with those expressed in Section 14.08.050. (Ord. 3610 §1, 1973.)

**14.08.080 Service Fees for Meters.**

Service fees for meters shall be set by resolution of the City Council. (Ord. 3829, 1976.)

**14.08.090 Water Service Meter Rates at Premises - Monthly Rates.**

The monthly rates to be charged and collected shall be set by resolution of the City Council. (Ord. 4250, 1984; Ord. 3829, 1976.)

**14.08.095 Customer Service Charge.**

In addition to all other charges imposed by this chapter, a customer service charge is hereby imposed and the same shall be collected in connection with all billings for water, without regard to actual water use, if any, at rates determined by resolution of the City Council. (Ord. 4250, 1984; Ord. 3829, 1976.)

**14.08.130 Meter Test - Replacing Meter.**

Any consumer may have the accuracy of the meter through which water is being furnished to his premises examined and tested by the City by making a written application therefor upon forms provided by the City and accompanying the same with a fee in an amount determined by resolution of the City Council. Upon receipt of such application and fee, the City shall examine and test such meter. If the meter is found to register a quantity of water which varies from the actual quantity of water passing through it by more than two percent (2%), such meter shall be removed and another meter installed in lieu thereof. In any event, the fee shall be retained by the City. (Ord. 4250, 1984; Ord. 3610 §1, 1973.)

**14.08.140 Placement Generally and General Treatment of Meters.**

All meters of the Public Works Department shall be placed at the curb line of the street, whenever and wherever practicable, and shall be protected and maintained as a part of the operation of the Department. (Ord. 3610 §1, 1973.)

THIS PAGE INTENTIONALLY LEFT BLANK

## Chapter 14.12

### PRIVATE FIRE SERVICE

**Sections:**

**14.12.010 Private Fire Service - Non-Meter Rates.**

**14.12.020 Private Fire Service - When Line to be Metered, Etc.**

**14.12.030 Private Fire Service - Reservation of Right to Disconnect.**

**14.12.010 Private Fire Service - Non-Meter Rates.**

The rate for City water for private fire services when the use of a meter is not required shall be set by resolution of the City Council. (Ord. 3829, 1976.)

**14.12.020 Private Fire Service - When Line to be Metered, Etc.**

If an existing fire service line is found tapped for domestic use, a meter or detector-check device shall be installed on such service at the expense of the consumer and the regular meter rate shall be charged thereafter in addition to the fire service rate. All fire service lines installed after the effective date of the ordinance codified in this chapter shall have an approved detector-check and by-pass meter installed and such device shall be considered part of the fire service cost. (Ord. 2931 §2(part), 1963; prior Code §44.21.)

**14.12.030 Private Fire Service - Reservation of Right to Disconnect.**

The right shall be reserved to disconnect fire service lines from the City main by direction of the Council on recommendation of the Director of the Public Works Department. (Ord. 2931 §2(part), 1963; prior Code §44.22.)

## Chapter 14.16

### BILLINGS AND PAYMENT FOR WATER

#### Sections:

<b>14.16.010</b>	<b>Due Dates - Shut Off for Delinquency - Service Restoration Fee.</b>	<b>14.16.070</b>	<b>Water Service Santa Barbara Mission.</b>
<b>14.16.020</b>	<b>Disconnection for Delinquency.</b>	<b>14.16.080</b>	<b>Disputed Accounts.</b>

#### **14.16.010 Due Dates - Shut Off for Delinquency - Service Restoration Fee.**

All water bills issued by the City shall be due and payable on the mailing date, which date shall be plainly stamped upon each bill. In the event any such bill is not paid within five (5) days after the mailing date of the notice of failure to pay such bill, water service may be disconnected from the premises of the delinquent consumer. Water service shall not be restored for such consumer until all arrearages in water bills of such consumer shall have been paid in full, together with a service restoration fee established by resolution of the City Council. (Ord. 4250, 1984; Ord. 3933 §1, 1977; Ord. 2931, 1963; prior Code §44.23.)

#### **14.16.020 Disconnection for Delinquency.**

Water service may be disconnected from the premises occupied by, or may be refused to, any consumer with a bill for water service supplied to the consumer at any other address (including a property formerly occupied by the consumer) which has remained unpaid for more than twenty (20) days. (Ord. 4250, 1984; Ord. 2931 §2(part), 1963; prior Code §44.23(part).)

#### **14.16.070 Water Service Santa Barbara Mission.**

Water to Santa Barbara Mission shall be furnished and paid for pursuant to the agreement dated November 22, 1966, between the Franciscan Fathers of California and the City, recorded as Instrument No. 40196, in Book 2175 at page 1276, Official Records of the County of Santa Barbara. (Ord. 3204 §1, 1967; Ord. 2931 §2(part), 1963; prior Code §44.28.)

#### **14.16.080 Disputed Accounts.**

The Director of Finance shall establish, subject to the approval of the City Council, administrative procedures for the resolution of consumer disputes regarding charges for water and sewer service provided by the City. A summary of these administrative procedures shall be included in each water and sewer delinquency billing. The administrative procedures may provide that the decision of the Finance Director or the City Administrator regarding the proper resolution of any dispute shall be final. (Ord. 4250, 1984; Ord. 2931 §2(part), 1963; prior Code §44.29.)

## Chapter 14.20

### WATER REGULATIONS

#### Sections:

<b>14.20.005</b>	<b>Use of Water.</b>	<b>14.20.140</b>	<b>Illegal Consumption Shown by Meter.</b>
<b>14.20.007</b>	<b>Prohibition Against Waste of Water.</b>	<b>14.20.150</b>	<b>Reconnection Generally.</b>
<b>14.20.010</b>	<b>Wasting Water - Repairs - Required.</b>	<b>14.20.160</b>	<b>Frontage Premises to be Separately Connected - Exception.</b>
<b>14.20.040</b>	<b>City's Relation to Seepage, Etc. - Damage on Private Property.</b>	<b>14.20.170</b>	<b>Notice Upon Vacating Premises - Required.</b>
<b>14.20.050</b>	<b>Who May Turn on Water.</b>	<b>14.20.180</b>	<b>Department to Read Meter on Receipt and Stop Service.</b>
<b>14.20.060</b>	<b>Preventing Access to Water System Outlets.</b>	<b>14.20.190</b>	<b>Rules and Regulations to be Established by Health Officer.</b>
<b>14.20.070</b>	<b>Consumer Precautions in Case of Fire.</b>	<b>14.20.200</b>	<b>Illegal Connections.</b>
<b>14.20.080</b>	<b>Right of Access to Water Meters.</b>	<b>14.20.210</b>	<b>Illegal Connection - Denial of Water from Public Water Supply.</b>
<b>14.20.090</b>	<b>Access to Meters Inside Premises.</b>	<b>14.20.215</b>	<b>Water Use Regulations During Drought Conditions.</b>
<b>14.20.100</b>	<b>Shutting Off Water for Repairs, Etc., and Notice.</b>	<b>14.20.225</b>	<b>Violations.</b>
<b>14.20.105</b>	<b>Shutting Off Irrigation Meters.</b>	<b>14.20.226</b>	<b>Penalties and Charges.</b>
<b>14.20.108</b>	<b>Place of Use of Water.</b>	<b>14.20.227</b>	<b>Notice of Violation - Hearing.</b>
<b>14.20.110</b>	<b>Tanks Required for Steam Boilers.</b>		
<b>14.20.120</b>	<b>Check Valves and Anti-Backflow Devices.</b>		

#### **14.20.005 Use of Water.**

The use of all water obtained by or through the distribution facilities of the City shall be governed and controlled by the provisions of this Chapter. (Ord. 4558, 1989.)

#### **14.20.007 Prohibition Against Waste of Water.**

It shall be a violation of this Chapter for any consumer or account holder to waste any water obtained from or through the distribution facilities of the City. (Ord. 4558, 1989.)

#### **14.20.010 Wasting Water - Repairs - Required.**

Each and every consumer shall maintain in good order all his water pipes, faucets, valves, plumbing fixtures or any other appliances, at all times, to prevent waste of water. (Ord. 2931 §2(part), 1963; prior Code §44.30.)

#### **14.20.040 City's Relation to Seepage, Etc. - Damage on Private Property.**

The City shall in no way whatsoever be responsible for any damage to person or property because of any leakage, breakage or seepage from or accident or damage to any meter or pipe situated within any private premises. The City shall not be responsible for any leakage, breakage or seepage from or accident or damage to any meter or pipe situated within any private premises. The City shall not be responsible for any leakage, breakage or seepage from any pipe situated between any meter properly installed at the curb and the private premises served thereby. The City shall not be responsible for or on account of any damage, injury or loss occasioned directly or indirectly by the existence of any meter or pipe situated upon private property. (Ord. 2931 §2(part), 1963; prior Code §44.33.)

#### **14.20.050 Who May Turn on Water.**

No person other than an official or employee of the Public Works Department shall turn on water from the City mains without a written permit from the Director of such department. (Ord. 2931 §2(part), 1963; prior Code §44.34.)

#### **14.20.060 Preventing Access to Water System Outlets.**

No person shall place upon or about a fire hydrant, curbcock, water meter or water gate connected with the water system of the City, any object, material, debris or structure of any kind that shall prevent free access to the same at all times. (Ord. 2931 §2(part), 1963; prior Code §44.42.)

**14.20.070 Consumer Precautions in Case of Fire.**

In case of fire, consumers shall be required to shut off all irrigation or any steady flow of water being used when the fighting of any fire reasonably necessitates the same. (Ord. 2931 §2(part), 1963; prior Code §44.43.)

**14.20.080 Right of Access to Water Meters.**

Any duly authorized representative of the City shall at all times have the right of ingress to and egress from any water meter located upon a consumer's premises by way of such easement, license or right-of-way, if any, as the City may own and for such purposes as are permitted by the easement, license or right-of-way. (Ord.4558, 1989; Ord. 4250, 1984; Ord. 2931 §2(part), 1963; prior Code §44.44.)

**14.20.090 Access to Meters Inside Premises.**

Where a water meter is placed inside the premises of a consumer, provision shall be made for convenient meter reading and repairing by representatives of the City, for shutting off or turning on water service, and for installation or removal of flow restricters. (Ord. 4558, 1989; Ord. 4250, 1984; Ord. 2931 §2(part), 1963; prior Code §44.45.)

**14.20.100 Shutting Off Water for Repairs, Etc., and Notice.**

The City reserves the right to shut off the water from any premises, or from any part of the distribution system, as long as necessary, without notice to the consumer, at any time when the exigencies of the occasion may require it; but in all cases of extension or connections the Department shall notify consumers of the necessity of shutting off water and the probable length of time the water shall be shut off before taking such action. (Ord. 2931 §2(part), 1963; prior Code §44.46.)

**14.20.105 Shutting Off Irrigation Meters.**

The City shall have the right to shut off water service to meters restricted to irrigation uses temporarily and as necessary to determine that the use of such meters is limited to irrigation. Any person applying for service through a meter restricted to irrigation uses shall be informed of such conditions of use at the time he or she applies for such a meter. (Ord. 4558, 1989.)

**14.20.108 Place of Use of Water.**

Except as otherwise provided in this Title or as specifically authorized by the Director, water received from or through a meter may be used only on and for the property served by that meter. (Ord. 4558, 1989.)

**14.20.110 Tanks Required for Steam Boilers.**

No stationary steam boiler shall be connected directly with the water distribution system of the City but in each and every case, a suitable tank of storage capacity, sufficient for twelve (12) hours supply for such boiler, shall be provided and the service pipe supplying such tank shall discharge directly into the top of such tank. (Ord. 2931 §2(part), 1963; prior Code §44.47.)

**14.20.120 Check Valves and Anti-Backflow Devices.**

Whenever the Director shall consider it necessary for the safety of the water system to have an approved check valve or anti-backflow device placed on the property side of any consumer's service, such device shall thereupon be immediately installed at the expense of such consumer. If such device is not installed within ten (10) days after the Director shall order such installation, it shall be installed by the Public Works Department at such consumer's expense on the basis of cost, plus overhead. (Ord. 2931 §2(part), 1963; prior Code §44.48.)

**14.20.140 Illegal Consumption Shown by Meter.**

When a meter shows a consumption of water after service has been officially discontinued, the owner of the property served shall be held responsible for such consumption, in addition to which he shall pay to the City a service restoration fee and the water shall not again be turned on for either owner or tenant until such illegal consumption has been fully paid for. (Ord. 4250, 1984; Ord. 2931 §2(part), 1963; prior Code §44.50.)

**14.20.150 Reconnection Generally.**

After water has been shut off from any premises, it shall not again be connected until the City has received written application therefor; such application shall be on blanks furnished by the City, and shall be signed by the prospective consumer. (Ord. 4250, 1984; Ord. 2931 §2(part), 1963; prior Code §44.51.)

**14.20.160 Frontage Premises to be Separately Connected - Exception.**

All water furnished by the City to any structure, building, house, flat, tenement, ground floor, business room or store or any unimproved realty under one (1) ownership in or outside the City, having a street or road frontage, shall be through a separate service connection; provided, however, that where two (2) or more houses owned by the same persons are situated on one (1) lot, and have only one (1) frontage on the same street or road, such houses may be furnished with water through one (1) and the same service connection; and provided further, that each house now having a street or road frontage shall be deemed as separately connected for the purpose of the charge or collection for water furnished, and the owner shall be liable for such water so furnished any one (1) connection. (Ord. 2931 §2(part), 1963; prior Code §44.52.)

**14.20.170 Notice Upon Vacating Premises - Required.**

Prior to vacating any premises connected to the City water supply system, the consumer shall request that the City terminate service and prepare a final billing. (Ord. 4250, 1984; Ord. 2931 §2(part), 1963; prior Code §44.53.)

**14.20.180 Department to Read Meter on Receipt and Stop Service.**

Within two (2) working days of receipt of the notice required by Section 14.20.170, the City shall read the water meter and shut off the water to the premises. (Ord. 4250, 1984; Ord. 2931 §2(part), 1963; prior Code §44.54.)

**14.20.190 Rules and Regulations to be Established by Health Officer.**

The Health Officer of the County is hereby authorized to establish written rules and regulations, including procedures for administration, of said rules and regulations, for the protection of public water supplies.

A copy of all regulations adopted hereunder shall be filed with the City Clerk and shall be subject to rejection by the City Council within thirty (30) days of filing. Regulations rejected by the City Council shall be null and void in the City.

For the purposes of this section and Sections 14.20.200 and 14.20.210, the following definitions shall apply:

(a) "Public Water Supply" means water which is piped to the general public for human consumption by a public water system.

(b) "Cross-connection" means the unprotected joining of or connection between any part of a public water supply system and any material or substance that is not safe, wholesome or potable for human consumption.

(c) "Auxiliary water supply" means any water supply other than a public water supply.

(d) "Health Officer" means the Health Officer designated in Title 7 of the Santa Barbara Municipal Code. (Ord. 3936, §1, 1978; Ord. 2931 §2(part), 1963; prior Code §44.55.)

**14.20.200 Illegal Connections.**

It shall be unlawful:

(a) to cause, establish or maintain a cross-connection within the City; or

(b) to cause, establish or maintain an auxiliary water supply on any premises or property which obtains water from a public water supply unless the public water supply is protected by a method approved by the Health Officer of the County; or

(c) to cause, establish or maintain a connection to the public water supply on any premise or property on which any material dangerous to health or toxic substance is handled under pressure, unless the public water supply is protected by an air-gap separation or other method approved by the Health Officer of the County; or

(d) to cause, maintain or establish any use of a public water supply in violation of regulations established by the Health Officer of the County pursuant to Section 14.20.190. (Ord. 3936 §1, 1978; Ord. 2931 §2(part), 1963; prior Code §44.56.)

**14.20.210 Illegal Connection - Denial of Water from Public Water Supply.**

Water service from the public water supply shall be discontinued by the Public Works Department upon any premises upon which there is any use or connection prohibited by Section 14.20.200 and such service shall not be restored until such violation is abated. The Health Officer of the County shall notify the Director of Public Works of the prohibited use or connection. (Ord. 3936 §1, 1978; Ord. 2931 §2(part), 1963; prior Code §44.57.)

#### **14.20.215 Water Use Regulations During Drought Conditions.**

A. STAGE TWO DROUGHT CONDITION. Upon adoption by the City Council of a resolution declaring a Stage Two Drought Condition and for as long as that condition exists, the following water use regulations, and such other regulations as may be adopted by resolution of the City Council, shall apply to all use of water, other than reclaimed wastewater, that is provided by the City water supply system.

1. The use of running water from a hose, pipe, or faucet for the purpose of cleaning buildings and paved, tile, wood, plastic or other surfaces shall be prohibited, except in the event the Director determines that such use is the only feasible means of correcting a potential threat to health and safety.

2. All restaurants that provide table service shall post, in a conspicuous place, a Notice of Drought Condition as approved by the Director and shall refrain from serving water except upon specific request by a customer.

3. The operation of and introduction of water into ornamental fountains and bodies of water shall be prohibited.

4. Operators of hotels, motels, and other commercial establishments offering lodgings shall post in each room a Notice of Drought Condition as approved by the Director.

5. Any use of water that causes runoff to occur beyond the immediate vicinity of use shall be prohibited.

6. The use of potable water for cleaning, irrigation and construction purposes, including but not limited to dust control, settling of backfill, flushing of plumbing lines, and washing of equipment, buildings and vehicles, shall be prohibited in all cases where the Director has determined that use of reclaimed wastewater is a feasible alternative.

7. Irrigation at any time from 8:00 a.m. to 6:00 p.m. of any yard, orchard, park, recreational area, or other area containing vegetation shall be prohibited.

8. Boats and vehicles shall be washed only at commercial car washing facilities equipped with water recycling equipment or by use of a bucket and hose equipped with a self-closing valve that requires operator pressure to activate the flow of water.

B. STAGE THREE DROUGHT CONDITION. Upon adoption by the City Council of a resolution declaring a Stage Three Drought Condition and for as long as that condition exists, the following water use regulations, and such other regulations as may be adopted by resolution of the City Council, shall apply to all use of water, other than reclaimed wastewater, that is provided by the City water supply system.

1. Each of the Stage Two water use regulations set forth in Subsections A.1 through A.6 of this Section shall be applicable.

2. The introduction of water into swimming pools and spas shall be prohibited.

3. The use of water through a meter that is restricted to irrigation uses shall be prohibited, and the City shall have the right to shut off water service to any such meter without notice to the account holder or any other person.

4. Irrigation of any yard, orchard, park, recreational area, or other area containing vegetation shall be prohibited, except by means of a hand-held bucket.

5. Boats and vehicles shall be washed only by use of a hand-held bucket or at commercial car washing facilities equipped with water recycling equipment.

C. EXEMPTIONS. Exemptions to the water use regulations set forth in this Section may be granted by the Director for specific uses of water, on the basis of hardship and in accordance with such guidelines for exemptions as the City Council may adopt. A denial of a request for an exemption may be appealed to a review committee consisting of the Director, the Parks Director or his designated representative, one member of the Board of Water Commissioners appointed by the Board, and such other persons, if any, as the City Council may appoint. The decision of the review committee shall be final.

D. Upon the declaration of and during a Stage Three Drought Condition, the failure of a mobilehome park owner to introduce water into a swimming pool or spa located in a mobilehome park, in accordance with the requirement of Paragraph B.7 of this Section, shall not be considered an increase in "rent" for purposes of Municipal Code Section 26.08.030.N. (Ord. 4558, 1989.)

#### **14.20.225 Violations.**

A. Any failure to comply with a provision of this Chapter shall constitute a violation, regardless of whether the failure to comply is caused by an account holder, a consumer or any other person or entity.

B. Where the failure to comply is continuing and intentional, each successive hour of such failure to comply shall be a separate and distinct violation. (Ord. 4558, 1989.)

#### **14.20.226 Penalties and Charges.**

A. The following penalties shall apply to any violation of any provision of this Chapter:

1. For the first violation within the preceding twelve (12) calendar months, the Director shall issue a written notice of the fact of such violation.

2. For a second violation within the preceding twelve (12) calendar months, the Director shall impose a surcharge against the account holder for the property where the violation occurred or is occurring, in an amount not to exceed two-hundred and fifty dollars (\$250.00).

3. For a third violation within the preceding twelve (12) calendar months, the Director:

- a. Shall impose a surcharge against the account holder for the property where the violation occurred or is occurring, in an amount not to exceed two-hundred and fifty dollars (\$250.00); and
- b. May install a flow restricter on the service where the violation occurred or is occurring, for a period to be determined by the Director.

4. For a fourth and any subsequent violation within the preceding twelve (12) calendar months, the Director:

- a. Shall impose a surcharge against the account holder for the property where the violation occurred or is occurring, in an amount not to exceed two-hundred and fifty dollars (\$250.00); and
- b. May install a flow restricter on or shut off water service to the property where the violation occurred or is occurring, for a period to be determined by the Director.

B. If a flow restricter is installed or water service shut off pursuant to Subsection A of this Section, prior to restoration of normal water service the account holder whose service is affected shall be required to reimburse the City for whatever cost it has incurred and will incur in installing and removing a flow restricter and in shutting off and turning on water service.

C. Any surcharge imposed pursuant to this Section shall be added to the account of the account holder for the property where the violation occurred or is occurring and shall be due and payable on the same terms and subject to the same conditions as any other charge for regular water service. The maximum amount of surcharges which an account holder may be required to pay during any twelve-month period shall be one thousand dollars (\$1,000.00).

D. Nothing in this Chapter shall limit or be construed to limit the right of an account holder to seek reimbursement of a surcharge from a tenant or other consumer. (Ord. 4558, 1989.)

#### **14.20.227 Notice of Violation - Hearing.**

A. For each violation of this Chapter, the Director shall give notice as follows:

1. By sending written notice through the U.S. mail to the account holder for the property where the violation occurred or is occurring, at the current billing address shown in the City's water billing records; and
2. By personally giving written notice thereof to the person who committed the violation or by leaving written notice with some person of suitable age and discretion at the property where the violation occurred or is occurring; or
3. If neither the person who committed the violation nor a person of suitable age and discretion can be found, then by affixing written notice in a conspicuous place on the property where the violation occurred or is occurring.

B. Any written notice given under this Section shall contain a statement of:

1. The time, place and nature of the violation;
2. The person(s) committing the violation, if known;
3. The provision(s) of this Chapter violated;
4. The possible penalties for each violation;
5. The account holder's right to request a hearing on the violation and the time within which such a request must be made; and
6. The account holder's loss of the right to a hearing in the event the account holder fails to request a hearing within the time required.

C. Any account holder provided a notice of violation in accordance with the provisions of this Chapter shall have the right to request a hearing. The request must be made in writing and must be received by the Director within ten (10) calendar days of the date of the notice of violation. The Director shall conduct the hearing, at which both written and oral evidence may be presented, and shall decide whether a violation occurred and the appropriate penalty. In determining the appropriate penalty, the Director shall consider whether the account holder knew of the violation at the time it occurred and whether he or she took reasonable action to correct the violation upon notification of it. In addition, the Director shall exercise his discretion in accordance with such guidelines as the City Council may adopt by resolution.

1. For a first or second violation within a twelve (12) month period, the decision of the Director shall be final.

2. For a third or subsequent violation within a twelve (12) month period, the account holder shall have the right to appeal the decision of the Director by requesting a hearing before the Board of Water Commissioners ("Board"). The request for hearing before the Board shall be in writing and shall be delivered to the Director not later than seven (7) calendar days after the date of the decision of the Director. At the hearing, the Board may receive and hear both written and oral evidence and shall have the authority to affirm, reverse, or modify the decision of the Director. The decision of the Board shall be final.

D. If an account holder fails to request a hearing before the Director or the Board within the period(s) provided in this Section, the action of the Department shall be deemed final.

E. There shall be no installation of a flow restricter or shut off of water service until a notice of violation has become final or there is a final decision of the Director or the Board ordering installation of a flow restricter or shut-off of water service. (Ord. 4558, 1989.)

THIS PAGE INTENTIONALLY LEFT BLANK

## Chapter 14.23

### WATER EFFICIENT LANDSCAPE AND RECLAIMED WATER USE REGULATIONS

#### Sections:

<b>14.23.008</b>	<b>Water Efficient Landscapes, Purpose.</b>	<b>14.23.020</b>	<b>Requirement to Use Reclaimed Water.</b>
<b>14.23.009</b>	<b>Regulation of New or Altered Landscapes.</b>	<b>14.23.030</b>	<b>Determination, Time Schedule for Compliance, Review.</b>
<b>14.23.010</b>	<b>Policy - Reclaimed Water.</b>		

#### **14.23.008 Water Efficient Landscapes, Purpose.**

The California State Legislature has found that the limited supply of state waters are subject to ever increasing demands; that California's economic prosperity depends on adequate supplies of water; that state policy promotes conservation and efficient use of water; that landscapes provide recreation areas, clean the air and water, prevent erosion, offer fire protection, and replace ecosystems displaced by development; and that landscape design, installation, and maintenance can and should be water efficient.

Consistent with the legislative findings, the purpose of this ordinance is to promote the values and benefits of landscapes while recognizing the need to invest water and other resources as efficiently as possible; to establish a structure for designing, installing, and maintaining water efficient landscapes in new projects; and to establish provisions for water management practices and water waste prevention for established landscapes. (Ord. 4787, 1992.)

#### **14.23.009 Regulation of New or Altered Landscapes.**

Each development proposal that proposes new landscaping or alterations to existing landscaping and that is subject to review by the Architectural Board of Review, the Historic Landmarks Commission, or the Single Family Design Board shall be required to comply with the City's Landscape Design Standards for Water Conservation as adopted by resolution of the City Council. (Ord. 5460, 2008; Ord. 4787, 1992.)

#### **14.23.010 Policy - Reclaimed Water.**

It is the policy of the City of Santa Barbara that reclaimed water be used wherever it is available in conformance with California Water Code Sections 13550 and 13551. (Ord. 4485, 1987)

#### **14.23.020 Requirement to Use Reclaimed Water.**

A person or public agency, as used in California Water Code Section 13551, shall not use water from any source of quality suitable for potable domestic use for the irrigation of greenbelt areas when suitable reclaimed water is available as provided in Section 13550. (Ord. 4485, 1987)

#### **14.23.030 Determination, Time Schedule for Compliance, Review.**

The Public Works Director shall review the facts and make a preliminary determination pursuant to California Water Code Section 13550 if a parcel or parcels of land are required to comply with Section 14.23.020 and establish a time schedule for compliance. A notice of that preliminary determination and a time schedule for compliance shall be sent to the owner of the parcel(s) using for this purpose, the last known name and address of such owners as shown upon the last Assessment Roll of the County of Santa Barbara. Any notice by the Public Works Director under this Section shall be deemed given when properly addressed and deposited into the United States mail with postage fully pre-paid or personally delivered to the owner. The owner may file a notice of objection which must be in writing, must specify the reasons for the objections and must be filed with the Public Works Director within twenty (20) days after it is given or mailed to the owner. The preliminary determination and time schedule for compliance shall be final if the owner does not file a timely objection. The Public Works Director or his designee shall meet with the owner to attempt to resolve the objections. If the objections cannot be re-solved to the mutual satisfaction of the City and owner, the Public Works Director shall give the owner a final determination and make a request that the Regional Water Quality Control Board and any other appropriate agencies conduct a hearing to determine if the parcel or parcels must use reclaimed water pursuant to Water Code Sections 13550 and 13551. (Ord. 4485, 1987)

## Chapter 14.25

### FIRE HYDRANTS

#### Sections:

<b>14.25.010</b>	<b>Generally.</b>	<b>14.25.050</b>	<b>Revocation of Permits.</b>
<b>14.25.020</b>	<b>Purpose - Who May Use.</b>	<b>14.25.060</b>	<b>Fees and Deposits.</b>
<b>14.25.030</b>	<b>Use Permit - Required.</b>		
<b>14.25.040</b>	<b>Meters, Hydrant Wrenches and Valves.</b>		

#### **14.25.010 Generally.**

Public fire hydrants connected to the City water system shall be placed, maintained and repaired by the Public Works Department. Any damage thereto by persons or agencies, other than representatives of the Fire or Public Works Department, shall be a claim against the person or agency committing such damage, and the Director shall take such action as may be necessary to collect the same. (Ord. 3922 §2, 1977; Ord. 2931, 1963; prior Code §44.35.)

#### **14.25.020 Purpose - Who May Use.**

Public fire hydrants shall be provided for the sole purpose of extinguishing fires, and shall be used otherwise only as provided for in this chapter, and shall be opened and used only by the Public Works and Fire Departments or such persons as may be authorized to do so by the Director of the Public Works Department as provided in this chapter. (Ord. 3922 §2, 1977; Ord. 2931, 1963; prior Code. §44.36.)

#### **14.25.030 Use Permit - Required.**

No person shall take water other than for the purpose of extinguishing fires from a fire or other hydrant owned or controlled by the City including hydrants installed pursuant to Section 14.25.070 without first obtaining a permit from the Director of the Public Works Department. No such permit holder shall take or use water contrary to this chapter or the terms of a permit issued under this chapter. No permit shall be issued to a person who has violated any of the provisions of this chapter or whose indebtedness to the City for water used, or damage to hydrants or equipment is delinquent.

The Director of Public Works may issue permits authorizing use through fire or other hydrants. Each permit:

- (a) shall be valid for a period of time as set by the Director of Public Works and not exceeding ninety (90) days;
- (b) shall be renewable by the Director of Public Works for additional periods not exceeding ninety (90) days;
- (c) shall set forth the hydrant(s) within the City's water service area which may be used pursuant to said permit;

and

(d) shall designate the location for which the water shall be used. Locations outside the City's water service area, except City owned property, shall not be designated except in emergencies. (Ord. 3922 §2, 1977.)

#### **14.25.040 Meters, Hydrant Wrenches and Valves.**

All water taken from a hydrant shall be metered using a meter provided, attached, secured and removed, by the Public Works Department. A valve connection device and a hydrant wrench provided by the Public Works Department shall be used in taking water from the hydrant. Permittee shall be responsible for loss or damage of the meter or other device and shall pay to City any charges necessary to repair and/or replace the meter and attachments if damaged or lost. Violation of this section shall be punishable as an infraction with a penalty of not less than \$250 nor more than \$500 in addition to restitution to the City for any water removed. (Ord. 4250, 1984; Ord. 3922 §2, 1977.)

#### **14.25.050 Revocation of Permits.**

Permits used in violation of this chapter shall be revoked by the Director of Public Works Department. (Ord. 3922 §2, 1977.)

#### **14.25.060 Fees and Deposits.**

Permittee shall pay permit fees, rental fees, water use fees and deposits established by resolution of the City Council. Deposits required for meters and/or other equipment provided to permittee shall be refunded in the event the equipment is returned in good order and condition and final settlement of account. (Ord. 4250, 1984; Ord. 3922 §2, 1977.)

## Chapter 14.28

### WATER MAIN EXTENSIONS

#### Sections:

<b>14.28.010</b>	<b>Water Main Extension - Standard Size.</b>	<b>14.28.090</b>	<b>Connections for Non-Contributors to Cost Prohibited.</b>
<b>14.28.020</b>	<b>Application for Extension - Report and Recommendation - Approval.</b>	<b>14.28.100</b>	<b>Contributors to Cost by Owners of Existing Private Lines.</b>
<b>14.28.030</b>	<b>To be Within Certain Boundaries.</b>	<b>14.28.110</b>	<b>Extension Charges Governed by Previous Ordinances.</b>
<b>14.28.040</b>	<b>Authorization of Construction.</b>	<b>14.28.120</b>	<b>Extension Charges to be Levied for Connection to Existing Water Mains.</b>
<b>14.28.050</b>	<b>Cost Distribution.</b>	<b>14.28.130</b>	<b>Water Main Extension Recovery Trust Account.</b>
<b>14.28.060</b>	<b>Statement of Final Cost - Basic Deposit Refund Procedure - Cost Contributions.</b>	<b>14.28.140</b>	<b>Refunds Generally.</b>
<b>14.28.070</b>	<b>City Contribution for Oversize Mains.</b>	<b>14.28.150</b>	<b>Limitations on Refund Claims.</b>
<b>14.28.080</b>	<b>Filing of Final Cost Sheet - Disposition of Deposit.</b>		

#### **14.28.010 Water Main Extension - Standard Size.**

Water mains extended pursuant to this chapter shall be a standard pipe size of not less than eight inches (8") in diameter when further future extension of such mains is practical and feasible. (Ord. 3933 §2, 1977; Ord. 2931, 1963; prior Code §44.61.)

#### **14.28.020 Application for Extension - Report and Recommendation - Approval.**

Owners of real property within and without the City desiring to have the City water system extended in accordance with the provisions of this chapter shall make written application therefor to the Director stating the location and limits of the requested water main extension together with a description of their property. The Director shall investigate each application and report to the City Administrator: (1) The feasibility and the practicality of the requested extension, (2) The estimated cost thereof including easement acquisition, fire hydrants and all other incidental expense, and (3) The proposed City contribution to the extension cost, if any; in determining the City's contribution, factors which may be taken into consideration are: zoning, land use, nature of terrain, nature of business and development of abutting property. The estimated extension cost shall be based upon the average cost of extending and laying water mains of the same size and type in the three (3) fiscal years immediately preceding the request as determined from cost records maintained by the City for said fiscal years. The petitioners may within ten (10) days from the date of receipt of the estimate from the Director, petition the City Council for reconsideration of the cost distribution. The City Council shall determine if the distribution of costs was made in accordance with the facts; shall review any additional facts presented by the petitioner; and shall, by appropriate motion confirm or reject the cost distribution. (Ord. 2931 §2(part), 1963; prior Code §44.62.)

#### **14.28.030 To be Within Certain Boundaries.**

All water main extensions as are mentioned in Section 14.28.020 shall be within the boundary lines of a public street or a recorded easement to the City. (Ord. 2931 §2(part), 1963; prior Code §44.63.)

#### **14.28.040 Authorization of Construction.**

After the application of the property owner requesting a water main extension together with the report from the Director as set forth in Section 14.28.020 has been received, the City Administrator may authorize the construction of the water main extension by public contract, by City forces or by private contract by the applicant subject to the approval of the applicant's plans and specifications and inspection by the Santa Barbara Public Works Department or subject to a deposit of the applicant's cost if constructed by public contract or City forces. Provided, however, the City Administrator shall not authorize the construction of any water main extension when the City's contribution to the project cost shall exceed twenty-five percent (25%) of the total project cost, unless such cost in excess of twenty-five percent (25%) is directly attributable to system improvement over and above that necessary to serve the abutting property directly benefited by the water main extension. Should the City's contribution exceed twenty-five percent (25%) of the project cost for which there is no system betterment other than that to the property directly benefited, approval for construction shall be authorized by the City Council. (Ord. 2931 §2(part), 1963; prior Code §44.64.)

#### **14.28.050 Cost Distribution.**

After the Department has received the deposit from the applicant for the main extension cost the Director shall prepare construction plans and specifications for main extension approved pursuant to Section 14.28.040, and cause the main extension to be constructed by force account, public contract, or, upon payment of engineering, inspection and incidental costs by applicant, authorize applicant to construct the approved main extension by private contract in lieu of deposit provisions of this section. (Ord. 2931 §2(part), 1963; prior Code §44.65.)

#### **14.28.060 Statement of Final Cost - Basic Deposit Refund Procedure - Cost Contributions.**

Upon completion and acceptance of the work by the City, performed pursuant to the provisions of this chapter, the Director shall prepare a statement of: (1) the final cost of the water main extension, and (2) the pro-rated distribution of such cost to the benefited properties. The cost distribution shall be made on either an area, building site, or frontage basis or a combination thereof as may be determined to be the most equitable basis by the Director. For purposes of contributions, cost distribution and refunds for mains extended by City forces, the Director shall use the average cost as defined in Section 14.28.020. (Ord. 2931 §2(part), 1963; prior Code §44.66.)

#### **14.28.070 City Contribution for Oversize Mains.**

A water main installed pursuant to an application under this chapter may be of larger size than the required standard pipe size of eight inches (8") in diameter when directed or approved by the Director of Public Works. The City shall pay the additional cost for the installation of the approved water mains of a larger size than the required standard pipe size of eight inches (8") in diameter. (Ord. 3933 §2, 1977; Ord. 2931, 1963; prior Code §44.67.)

#### **14.28.080 Filing of Final Cost Sheet - Disposition of Deposit.**

Upon compliance with the provisions of Section 14.28.060, the Director shall file the final cost sheet with the office manager-accountant and a copy forwarded to the applicant. (Ord. 2931 §2(part), 1963; prior Code §44.68.)

#### **14.28.090 Connections for Non-Contributors to Cost Prohibited.**

The owners of benefited property or their predecessors in interest, as shown on the final cost sheet filed by the Director, who have not theretofore contributed their proportionate share of the water main extension, as recorded on the final cost sheet, shall not be permitted to connect to such water main extension unless and until the amount recorded on the final cost sheet has been paid to the City. (Ord. 2931 §2(part), 1963; prior Code §44.69.)

#### **14.28.100 Contributors to Cost by Owners of Existing Private Lines.**

No property owner in a water main extension area formed pursuant to this chapter who has, previous to such water main extension, constructed a private water line to or for his property, at his own expense, shall be required to contribute to the cost of such water main extension, except where the private water line is abandoned and connection to the main extension is requested. Such property owner, or his successor in interest, shall pay the amount so determined before connecting his property to the water main extension. (Ord. 2931 §2(part), 1963; prior Code §44.70.)

#### **14.28.110 Extension Charges Governed by Previous Ordinances.**

Applicants requesting connection to a water main installed under the provisions of this title shall pay the water main extension charge set forth in the current ordinance as a condition precedent to the granting of a connection permit. (Ord. 2931 §2(part), 1963; prior Code §44.71.)

#### **14.28.120 Extension Charges to be Levied for Connection to Existing Water Mains.**

Applicants requesting connection to an existing water main installed subsequent to August 25, 1946, and financed in whole or in part from City funds, and where such applicant or his predecessor in interest of the land to be served has not paid a water main extension charge with respect to such water main, shall pay an extension charge to the City before the application may be approved. Replacement of any City water main existing on August 25, 1946, shall be deemed to constitute a main installed prior to such date. The extension charge shall be computed by the Director as provided in this chapter for a new main extension. The charge under this section is in addition to any permit, meter or connection fees and other regular charges made under this title or other ordinances. The charges collected pursuant to this section shall be credited to the proper revenue account in accordance with standard accounting practice. (Ord. 2931 §2(part), 1963; prior Code §44.72.)

**14.28.130 Water Main Extension Recovery Trust Account.**

Collection, pursuant to Sections 14.28.090 - 14.28.110 shall be credited to a Water Main Extension Recovery Trust Account on the general books of the City. Charges against this account shall be made only pursuant to the provisions of Sections 14.28.140 and 14.28.150. (Ord. 2931 §2(part), 1963; prior Code §44.73.)

**14.28.140 Refunds Generally.**

Periodically, but not less than twice a year the Department shall pay and refund to the persons originally paying for the water main, their proportionate share of the money paid by subsequent property owners who did not participate in the original cost and who were given permits to connect to the extended water main and who paid as provided in the Director's final cost sheet. Payments made hereunder shall be charged to the Water Main Extension Recovery Trust Account.

Payments under this section shall be made to the person originally paying for such water main at his address appearing in the records of the Public Works Department and shall constitute a discharge of its duty under this section to pay as to all sums so paid unless the City shall have received and consented to an assignment of such right to another giving the assignee's name and payment address. (Ord. 2931 §2(part), 1963; prior Code §44.74.)

**14.28.150 Limitations on Refund Claims.**

Any claim by a contributing property owner for a refund which is payable out of the Water Main Extension Recovery Trust Account shall be made within a period of fifteen (15) years from the date of the original contribution. All moneys remaining in the trust account after such fifteen (15) years shall have elapsed from the time of its deposit, shall forthwith be transferred to the proper water fund revenue account. (Ord. 2931 §2(part), 1963; prior Code §44.75.)

## Chapter 14.32

### WELLS

#### Sections:

<b>14.32.010</b>	<b>Title.</b>	<b>14.32.080</b>	<b>Cash Deposit or Security Bond.</b>
<b>14.32.020</b>	<b>Legislative Intent.</b>	<b>14.32.090</b>	<b>Suspension or Revocation of Permit.</b>
<b>14.32.030</b>	<b>Definitions.</b>	<b>14.32.100</b>	<b>Appeal.</b>
<b>14.32.040</b>	<b>Acts Prohibited, Permit Required.</b>	<b>14.32.110</b>	<b>Public Nuisance.</b>
<b>14.32.050</b>	<b>Meter Required.</b>	<b>14.32.115</b>	<b>Emergency.</b>
<b>14.32.055</b>	<b>Reporting Water Use.</b>	<b>14.32.120</b>	<b>Meters.</b>
<b>14.32.060</b>	<b>Permits.</b>	<b>14.32.130</b>	<b>Inspection.</b>
<b>14.32.070</b>	<b>Rules and Regulations.</b>		

#### **14.32.010 Title.**

This chapter shall be known and referred to as the Well Ordinance of the City of Santa Barbara. (Ord. 3746 §1, 1975.)

#### **14.32.020 Legislative Intent.**

It is the purpose of this ordinance to regulate the construction, modification or repair, abandonment or destruction of wells in such a manner that the groundwater of this City will not be contaminated or polluted, and that water obtained from wells will be suitable for beneficial use and will not jeopardize the health, safety or welfare of the people of this City, and to monitor the amount of water pumped from wells. (Ord. 3746 §1, 1975.)

#### **14.32.030 Definitions.**

(a) "Person." Person shall mean any individual, firm, partnership, general corporation, association or governmental entity.

(b) "Well." Well shall mean any artificial excavation for the purpose of extracting water from or injecting water into the ground, or for providing cathodic protection, or for making tests or observations of underground conditions, or for any other similar purpose. This definition shall not include: (a) oil and gas wells, or geothermal wells; or (b) wells used for the purpose of (1) dewatering excavation during construction or (2) stabilizing hillsides or earth embankments.

(c) "Contamination." Contamination shall mean the impairment of the quality of water to a degree which creates or may create a hazard to the public health through poisoning or through spread of disease.

(d) "Pollution." Pollution shall mean the alteration of the quality of water to a degree which affects or may affect such water for beneficial uses. Pollution may include contamination.

(e) "Public Works Director." Public Works Director shall mean the Public Works Director of the City of Santa Barbara or his duly authorized representatives.

(f) "Public Nuisance." Public nuisance when applied to a well shall mean any action or omission which threatens to or which contaminates or pollutes the groundwater or otherwise jeopardizes the health, safety and welfare of the public.

(g) "Abandon or Abandonment." Abandon or abandonment when applied to a well shall mean to cease maintenance or use of the well for a period of one (1) year.

(h) "Destroy or Destruction." Destroy or destruction when applied to a well shall mean any action which causes the well no longer to produce or act as a conduit for the interchange of water.

(i) "Emergency." Emergency shall mean a circumstance which is either (1) an imminent threat of or is actually contaminating or polluting the groundwater of this City, or (2) jeopardizes the health or safety of the people of this City or (3) will cause a substantial and immediate loss of property. (Ord. 3746 §1, 1975.)

#### **14.32.040 Acts Prohibited, Permit Required.**

(a) It shall be unlawful for any person to construct, modify or repair, abandon or destroy any well unless such person has a valid permit issued by the Public Works Director for the specific action to be taken.

(b) It shall be unlawful for any person to construct, modify or repair, abandon or destroy any well unless such construction, modification or repair, abandonment or destruction is in conformance with the terms and conditions contained in the permit issued by the Public Works Director. (Ord. 3746 §1, 1975.)

#### **14.32.050 Meter Required.**

(a) New Wells. Prior to removing any water from a newly constructed well, the permittee shall furnish and install, at its own expense, a water meter which shall measure the amount of water taken from said well. Said meter shall be the property of the owner of said well.

(b) Existing Wells. After the effective date of this ordinance, the Public Works Director will cause a water meter to be installed on each existing well at no cost to the owner. Upon abandonment of such wells, said water meters shall be returned to the Public Works Director. (Ord. 3746 §1, 1975.)

#### **14.32.055 Reporting Water Use.**

The owner of each well within the City of Santa Barbara on which a water meter has been installed shall read said meter annually on or about May 14 and not later than thirty (30) days thereafter report to the Public Works Director the amount of water pumped since the last reading of said meter. (Ord. 3746 §1, 1975.)

#### **14.32.060 Permits.**

- (a) The application for the permit required by this ordinance shall be:
- (1) Made in writing to the Public Works Director on such forms as he may prescribe setting forth such information as he may require to secure the purposes of this ordinance.
  - (2) Signed by the applicant.
- (b) The application shall be accompanied by the filing fee established by the City Council by resolution. No part of this fee shall be refundable.
- (c) Permits issued pursuant to this ordinance by the Public Works Director may contain and be subject to such terms and conditions as the Public Works Director determines are necessary to carry out the purposes of this ordinance. The Public Works Director shall deny any application for a permit if, in his determination, its issuance would tend to jeopardize the purposes of this ordinance.
- (d) Every permit issued pursuant to this ordinance shall expire and become null and void upon completion of the work authorized thereby; however, in any event such permit shall expire and be null and void on the date set forth in the permit by the Public Works Director but in no event longer than one (1) year from the date of issue. (Ord. 3746 §1, 1975.)

#### **14.32.070 Rules and Regulations.**

The Public Works Director may adopt rules and regulations to implement and administer this ordinance. Said rules and regulations shall be approved by the City Council. (Ord. 3746 §1, 1975.)

#### **14.32.080 Cash Deposit or Security Bond.**

Prior to the issuance of a permit the applicant shall post with the Public Works Director a cash deposit or security bond to guarantee compliance with any terms and conditions of the permit and the proper performance of the work. Such cash and security bond shall be in the amount determined necessary by the Public Works Director to insure such compliance with the purposes of this ordinance but in no event will such cash deposit or security bond be for an amount in excess of the total estimated cost of the work to be performed. The deposit or bond will be returned to the permittee when the work has been satisfactorily completed. (Ord. 3746 §1, 1975.)

#### **14.32.090 Suspension or Revocation of Permit.**

- (a) The Public Works Director may suspend or revoke a water well permit issued under this ordinance whenever the Public Works Director determines that any work performed under such a permit constitutes a nuisance or when the applicant, his agents or employees or the licensed well drilling contractor performing the work (1) violates any provision of this ordinance or any terms and conditions of the permit or (2) misrepresents any material facts in the application for a permit.
- (b) Before the Public Works Director suspends or revokes a water well permit, the Public Works Director shall make reasonable effort to notify the landowner where the well is located or the licensed well drilling contractor performing work on the well. (Ord. 3746 §1, 1975.)

#### **14.32.100 Appeal.**

Any person whose application for a permit has been denied, granted conditionally or any person whose permit has been suspended or revoked may appeal to the City Council pursuant to the provisions of Section 1.30.050 of this Code. (Ord. 5136, 1999; Ord. 3746 §1, 1975.)

**14.32.110 Public Nuisance.**

Upon finding by the Public Works Director that a well may cause contamination or pollution to the groundwater or is a threat to the public health, safety or welfare, such well shall constitute a public nuisance. The Public Works Director may take any action necessary to abate such public nuisance. The property owner where the well is located and or the permittee for such well shall be liable for any and all costs incurred by or at the request of the Public Works Director for the abatement of such public nuisance. (Ord. 3746 §1, 1975.)

**14.32.115 Emergency.**

In the event of an emergency, a person may construct, modify or repair, destroy or abandon a water well without the permit required by this ordinance providing that (1) such work is performed in conformance with the standards set forth herein, (2) the Public Works Director is notified of such emergency work prior to its commencement and (3) an application for the required permit is made within three (3) City working days after the initiation of such emergency work. (Ord. 3746 §1, 1975.)

**14.32.120 Meters.**

In the event that a meter is not installed on a newly constructed water well the Public Works Director will cause a meter to be installed and recover the costs of such installation from the owner. In the event any water well meter is not properly maintained by the owner, the Public Works Director may perform the necessary maintenance on the meter and recover the costs from the owner. In the event the meter is not read and the amount pumped reported to the Public Works Director, he may cause the meter to be read. (Ord. 3746 §1, 1975.)

**14.32.130 Inspection.**

The Public Works Director may, at any and all reasonable times, enter any and all places, property, enclosures and structures for the purpose of making examinations and investigations regarding the construction, modification or repair, abandonment or destruction of wells. (Ord. 3746 §1, 1975.)

City of Santa Barbara - Public Works Department  
**Rates for City Water and Sewer Service**  
 Resolution No. 09-043 (for Fiscal Year 2010)  
 1 hcf = 100 cubic feet = 748 gallons

<b>Attachment C</b>
---------------------

Customer Class	Water Service Rates <sup>1</sup>	Sewer Service Rates
Single Family Residential	First 4 hcf @ \$2.84 Next 16 hcf @ \$4.76 All other @ \$5.01	\$12.03 per month; plus \$2.09 per hcf, up to 10 hcf per month
Multi-Family Residential, 1-4 dwelling units	First 4 hcf per dwelling unit @ \$2.84 Next 8 hcf per dwelling unit @ \$4.76 All other @ \$5.01	\$12.03 per month per dwelling unit; plus \$2.09 per hcf, up to 8 hcf per dwelling, per month
Multi-Family Residential, 5+ dwelling units	First 4 hcf per dwelling unit @ \$2.84 Next 8 hcf per dwelling unit @ \$4.76 All other @ \$5.01	\$12.03 per month per dwelling unit; plus \$2.09 per hcf, up to 7 hcf per dwelling, per month
Commercial	100% of base allotment <sup>2</sup> @ \$4.76 per hcf; All other @ \$5.01	\$2.37 per hcf; subject to minimum charge by meter size (see table below)
Industrial & High Strength Commercial	100% of base allotment <sup>2</sup> @ \$4.76 per hcf; All other @ \$5.01/hcf	\$2.87 per hcf; subject to minimum charge by meter size (see table below)
Irrigation - Residential	Billed as if used through associated residential meter, OR annual allotment <sup>3</sup> of 654 hcf/acre @ \$4.76; all other @ \$5.01	Not applicable
Irrigation - Recreation/Parks/Schools	Annual allotment <sup>3</sup> of 1,404 hcf/acre @ \$2.24 Next 240 hcf/acre/year @ \$4.76 All other @ \$5.01	Not applicable
Irrigation - Commercial	100% of base allotment <sup>2</sup> @ \$4.76 per hcf; All other @ \$5.01/hcf	Not applicable
Irrigation – Agriculture	Annual allotment <sup>3</sup> of 1080 hcf/acre @ \$1.45 Next 240 hcf/acre/year @ \$4.76 All other at \$5.01/hcf	Not applicable
Recycled Water	All usage @ \$1.80/hcf	Charges based on type of use. Not applicable for irrigation.
Outside City Limits	130% of corresponding in-City rates	Same as in-City rates, except that residential accounts not receiving City water are charged at maximum rate.

**Monthly Water Meter Service Charges By Meter Size<sup>1</sup>**

Meter Size	5/8"	3/4" *	1"	1½"	2"	3"	4"	6"	8"	10"
Monthly Service Charge:	\$11.95	\$17.96	\$29.90	\$59.79	\$95.69	\$191.36	\$299.00	\$598.00	\$956.80	\$1,375.40

**Minimum Monthly Sewer Charges by Meter Size for Non-Residential Customers**

Meter Size	5/8"	3/4" *	1"	1½"	2"	3"	4"	6"	8"	10"
Commercial	\$22.61	\$33.91	\$39.45	\$67.71	\$112.89	\$225.69	\$281.69	\$564.22	\$987.41	\$1,515.65
Indus/HS Com.	\$28.18	\$42.27	\$49.39	\$84.83	\$141.07	\$282.07	\$352.70	\$705.27	\$1,234.18	\$1,939.55

\* This meter size no longer available for new installations.

**Typical City Water and Sewer Fees for Connection of a Single-Family Residence**

Water: \$2,041 (1" service connection, with 5/8" meter) + \$5,691 (buy-in fee, per residence) = \$7,732  
 Sewer: \$619 (4" sewer tap) + \$313 (trench inspection) + \$4,118 (buy-in fee, single-family residence)<sup>4</sup> = \$5050

**For more information, contact the City's Water Hotline at (805) 564-5460**

<sup>1</sup> Utility users tax of 6% added to metered water charges and monthly water meter service charges.

<sup>2</sup> Base allotment = average monthly consumption during most recent January - June period.

<sup>3</sup> Annualized allotments run July to June; new allotments available for the July water bill; unused allotments do not carry forward, except for agricultural irrigation customers.



**City of Santa Barbara**  
P.O. Box 60809  
Santa Barbara, CA 93160-0809  
PHONE (805) 564-5343

# Utility Bill

**BILLS MAY BE PAID AT CITY HALL: 735 ANACAPA - MAKE CHECKS PAYABLE TO : CITY OF SANTA BARBARA**

### ACCOUNT INFORMATION

Account #: [REDACTED]  
Customer Name: [REDACTED]  
Service Address: [REDACTED]  
Billing Date: 02/08/2011 Billing Days: 29  
Service Period: 01/04/11 to 02/02/11  
Next Reading On Or About: 3/10/2011

### BILLING SUMMARY

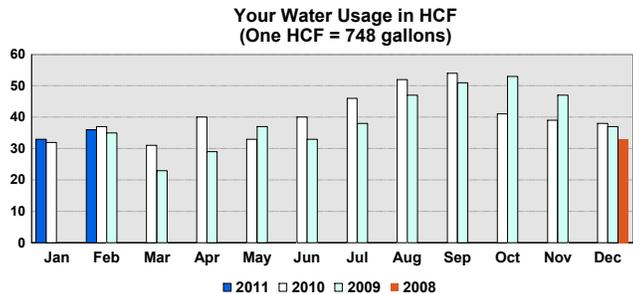
Previous Charges	\$251.28
Payment	252.00CR
<b>BALANCE FORWARD</b>	<b>\$0.72CR</b>
<b>CURRENT CHARGES MUST BE PAID BY:</b>	<b>02/28/11</b>
Water Service:	196.09
Sewer Service:	34.21
Solid Waste Service:	37.39
Total Current Charges:	267.69

<b>TOTAL CHARGES NOW DUE</b>	<b>\$266.97</b>
------------------------------	-----------------

**SEE REVERSE FOR DETAIL OF CURRENT CHARGES**

### WATER USAGE INFORMATION

Meter #: 067303993A  
Current Reading: 1597 Previous Reading: 1561  
**Current Usage: 36 HCF**



### TRASH & RECYCLING INFORMATION

Looking Good SB is accepting nominations for the Spirit of Service Awards honoring those promoting waste reduction (think reduce, reuse, recycle & compost) or graffiti/litter removal. Deadline is March 3.

Rebates available for water wise plants, drip irrigation & more. For more info, savewatersb.org or call 564-5460. Native Plant Garden Tour April 16, www.sbbg.org to register.

Please return bottom portion along with your payment and make your check payable to City of Santa Barbara



**CITY OF SANTA BARBARA**  
POST OFFICE BOX 1990  
SANTA BARBARA, CA 93102-1990  
PHONE 805-564-5343

# Utility Bill

### ACCOUNT INFORMATION

<b>BILLING DATE:</b>	<b>02/08/2011</b>
<b>DELINQUENT DATE:</b>	<b>02/28/2011</b>
<b>ACCOUNT NUMBER:</b>	<b>007837-728215</b>
<b>TOTAL NOW DUE:</b>	<b>\$266.97</b>

**AMOUNT ENCLOSED:**

\*0078377282150026697\*  
\*0078377282150026697\*

REMIT TO:  
CITY OF SANTA BARBARA  
PO BOX 60809  
SANTA BARBARA, CA 93160-0809

!9316008094!

856600783772821500000000000026697

931052



SANTA BARBARA CA 93105

**BILLING DETAIL**

<b>WATER SERVICE</b>	<b>Usage</b>	<b>Unit Cost</b>	<b><u>Current Amount</u></b>
Water Meter Charge			12.31
Residential Block 1 Water Usage	4	\$2.930	11.72
Residential Block 2 Water Usage	16	\$4.900	78.40
Residential Block 3 Water Usage	16	\$5.160	82.56
Utility Users Tax - Water			11.10
		<b>Subtotal:</b>	<b>\$196.09</b>
<b>SEWER SERVICE</b>			
Sewer Usage Charge	10	\$2.170	21.70
Sewer Base Charge			12.51
		<b>Subtotal:</b>	<b>\$34.21</b>
<b>SOLID WASTE</b>			
Trash Can/Cart Residential Service			35.27
Utility Users Tax - Trash & Recycling			2.12
		<b>Subtotal:</b>	<b>\$37.39</b>
<b>TOTAL CURRENT CHARGES:</b>			<b>\$267.69</b>

**CONTACTS & PAYMENT OPTIONS**

**WHO TO CALL**

Billing questions? (805) 564-5343  
 Water Conservation questions? (805) 564-5460 or visit [www.SantaBarbaraCA.gov/water](http://www.SantaBarbaraCA.gov/water)  
 If your trash, recycling, or greenwaste is not picked up call: **Marborg 805-963-1852**  
 Other questions about trash and recycling? (805) 564-5631 or visit [www.sbrecycles.org](http://www.sbrecycles.org)

**If you would like your monthly payment automatically deducted from your bank account contact the billing office at 805-564-5343 or download the form at [www.SantaBarbaraCa.gov/Government/Departments/Finance/Utility\\_Billing](http://www.SantaBarbaraCa.gov/Government/Departments/Finance/Utility_Billing)**

Credit card payments are only accepted at the City Hall cashiering office: **735 Anacapa, Santa Barbara, CA.**

**PROCEDURE FOR REVIEW AND APPEAL OF DISPUTED UTILITY BILLINGS**

1. REVIEW BY ACCOUNTING MANAGER. A customer who desires to dispute the accuracy of a bill for water, sewer, and/or refuse service shall, no later than 40 days from the date of the original bill, submit a written request to the City's Accounting Manager, or designated representative, for review of the bill. Upon such a request, the customer shall be given an opportunity for a review, investigation and hearing by the Accounting Manager, or designee, concerning the accuracy of the bill. The Accounting Manager, or designee, shall have the authority to correct an erroneous bill. The customer shall be given written notification of the decision regarding the dispute.

2. APPEAL TO FINANCE DIRECTOR. If a customer disagrees with the decision of the Accounting Manger, or designee, the customer may appeal that decision to the Finance Director. Any such appeal must be filed in writing with the Finance Director at City Hall within five (5) days after written notice of the decision of the

Accounting Manager, or designee, is given to the customer. The Finance Director, or a designated representative, may review the accuracy of the amount billed, but will not review appeals under this procedure concerning service, general level of rates, pending rate changes, source of water and similar matters. All decisions of the Finance Director will be final.

3. DISCONTINUANCE OF SERVICE FOR FAILURE TO PAY. Water service will be discontinued if a bill has not been paid in full and a timely and proper appeal has not been filed or an appeal has been denied and the appeal is final.

4. NOTICE. Under this review and appeal procedure, notice by City is deemed to be given when (1) personally given to the customer, (2) left at the premises where the service was given, or (3) enclosed in an envelope addressed to the customer with postage prepaid and deposited in the United States mail.



**City of Santa Barbara**  
 P.O. Box 60809  
 Santa Barbara, CA 93160-0809  
 PHONE (805) 564-5343

# Utility Bill

**BILLS MAY BE PAID AT CITY HALL: 735 ANACAPA - MAKE CHECKS PAYABLE TO : CITY OF SANTA BARBARA**

### ACCOUNT INFORMATION

Account #: [REDACTED]  
 Customer Name: [REDACTED]  
 Service Address: [REDACTED]  
 Billing Date: 02/23/2011 Billing Days: 24  
 Service Period: 01/24/11 to 02/17/11  
 Next Reading On Or About: 3/25/2011

### BILLING SUMMARY

Previous Charges	\$732.46
Payment	732.46CR
<b>BALANCE FORWARD</b>	<b>\$0.00</b>
<b>CURRENT CHARGES MUST BE PAID BY:</b>	<b>03/15/11</b>
Water Service:	111.15
Sewer Service:	41.03
Solid Waste Service:	510.41
Total Current Charges:	662.59

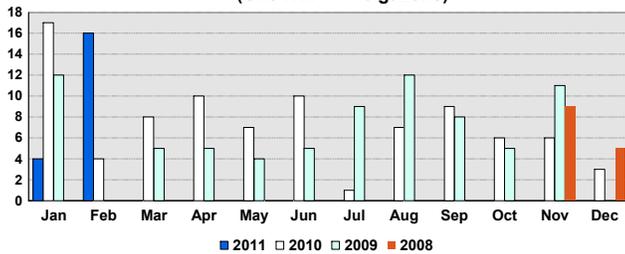
**TOTAL CHARGES NOW DUE \$662.59**

**SEE REVERSE FOR DETAIL OF CURRENT CHARGES**

### WATER USAGE INFORMATION

Meter #: 000004178D  
 Current Reading: 2609 Previous Reading: 2593  
**Current Usage: 16 HCF**

**Your Water Usage in HCF**  
 (One HCF = 748 gallons)



### TRASH & RECYCLING INFORMATION

Looking Good SB is accepting nominations for the Spirit of Service Awards honoring those promoting waste reduction (think reduce, reuse, recycle & compost) or graffiti/litter removal. Deadline is March 3.

Rebates available for water wise plants, drip irrigation & more. For more info, savewatersb.org or call 564-5460. Native Plant Garden Tour April 16, www.sbbg.org to register.

Please return bottom portion along with your payment and make your check payable to City of Santa Barbara



**CITY OF SANTA BARBARA**  
 POST OFFICE BOX 1990  
 SANTA BARBARA, CA 93102-1990  
 PHONE 805-564-5343

# Utility Bill

### ACCOUNT INFORMATION

BILLING DATE: 02/23/2011  
 DELINQUENT DATE: 03/15/2011  
 ACCOUNT NUMBER: 000385-707148  
**TOTAL NOW DUE: \$662.59**

AMOUNT ENCLOSED:

\*0003857071480066259\*  
 \*0003857071480066259\*

REMIT TO:  
 CITY OF SANTA BARBARA  
 PO BOX 60809  
 SANTA BARBARA, CA 93160-0809

!9316008094!

856600038570714800000000000066259

931304



SANTA BARBARA CA 93130

**BILLING DETAIL**

<b>WATER SERVICE</b>	<b>Usage</b>	<b>Unit Cost</b>	<b><u>Current Amount</u></b>
Water Meter Charge			24.64
Commercial/Industrial Block 1 Water Usage	9	\$4.900	44.10
Commercial/Industrial Block 2 Water Usage	7	\$5.160	36.12
Utility Users Tax - Water			6.29
		<b>Subtotal:</b>	<b>\$111.15</b>
<b>SEWER SERVICE</b>			
Sewer Service Charge			41.03
		<b>Subtotal:</b>	<b>\$41.03</b>
<b>SOLID WASTE</b>			
Trash 4 yd Dumpster - Business			481.52
Utility Users Tax - Trash & Recycling			28.89
		<b>Subtotal:</b>	<b>\$510.41</b>
<b>TOTAL CURRENT CHARGES:</b>			<b>\$662.59</b>

**CONTACTS & PAYMENT OPTIONS**

**WHO TO CALL**

Billing questions? (805) 564-5343  
 Water Conservation questions? (805) 564-5460 or visit [www.SantaBarbaraCA.gov/water](http://www.SantaBarbaraCA.gov/water)  
 If your trash, recycling, or greenwaste is not picked up call: **Marborg 805-963-1852**  
 Other questions about trash and recycling? (805) 564-5631 or visit [www.sbrecycles.org](http://www.sbrecycles.org)

**If you would like your monthly payment automatically deducted from your bank account contact the billing office at 805-564-5343 or download the form at [www.SantaBarbaraCa.gov/Government/Departments/Finance/Utility\\_Billing](http://www.SantaBarbaraCa.gov/Government/Departments/Finance/Utility_Billing)**

Credit card payments are only accepted at the City Hall cashiering office: **735 Anacapa, Santa Barbara, CA.**

**PROCEDURE FOR REVIEW AND APPEAL OF DISPUTED UTILITY BILLINGS**

1. REVIEW BY ACCOUNTING MANAGER. A customer who desires to dispute the accuracy of a bill for water, sewer, and/or refuse service shall, no later than 40 days from the date of the original bill, submit a written request to the City's Accounting Manager, or designated representative, for review of the bill. Upon such a request, the customer shall be given an opportunity for a review, investigation and hearing by the Accounting Manager, or designee, concerning the accuracy of the bill. The Accounting Manager, or designee, shall have the authority to correct an erroneous bill. The customer shall be given written notification of the decision regarding the dispute.

2. APPEAL TO FINANCE DIRECTOR. If a customer disagrees with the decision of the Accounting Manger, or designee, the customer may appeal that decision to the Finance Director. Any such appeal must be filed in writing with the Finance Director at City Hall within five (5) days after written notice of the decision of the

Accounting Manager, or designee, is given to the customer. The Finance Director, or a designated representative, may review the accuracy of the amount billed, but will not review appeals under this procedure concerning service, general level of rates, pending rate changes, source of water and similar matters. All decisions of the Finance Director will be final.

3. DISCONTINUANCE OF SERVICE FOR FAILURE TO PAY. Water service will be discontinued if a bill has not been paid in full and a timely and proper appeal has not been filed or an appeal has been denied and the appeal is final.

4. NOTICE. Under this review and appeal procedure, notice by City is deemed to be given when (1) personally given to the customer, (2) left at the premises where the service was given, or (3) enclosed in an envelope addressed to the customer with postage prepaid and deposited in the United States mail.



**City of Santa Barbara**  
P.O. Box 60809  
Santa Barbara, CA 93160-0809  
PHONE (805) 564-5343

# Utility Bill

**BILLS MAY BE PAID AT CITY HALL: 735 ANACAPA - MAKE CHECKS PAYABLE TO : CITY OF SANTA BARBARA**

### ACCOUNT INFORMATION

Account #: [REDACTED]  
Customer Name: [REDACTED]  
Service Address: [REDACTED]  
Billing Date: 02/10/2011 Billing Days: 32  
Service Period: 01/06/11 to 02/07/11  
Next Reading On Or About: 3/12/2011

**Payment is due upon receipt. Service is subject to disconnection if past due charges are not paid immediately!**

### BILLING SUMMARY

Previous Charges	\$184.74
Payment	0.00
<b>PAST DUE - PAY IMMEDIATELY</b>	<b>\$184.74</b>
<b>CURRENT CHARGES MUST BE PAID BY:</b>	<b>03/02/11</b>
Water Service:	265.68
Other Charges	184.74CR
Total Current Charges:	80.94

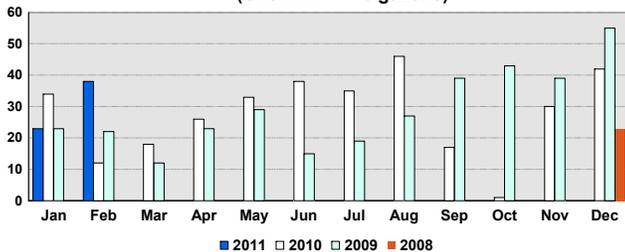
<b>TOTAL CHARGES NOW DUE</b>	<b>\$265.68</b>
------------------------------	-----------------

**SEE REVERSE FOR DETAIL OF CURRENT CHARGES**

### WATER USAGE INFORMATION

Meter #: 11004491E  
Current Reading: 61 Previous Reading: 23  
**Current Usage: 38 HCF**

**Your Water Usage in HCF**  
(One HCF = 748 gallons)



Rebates available for water wise plants, drip irrigation & more. For more info, savewatersb.org or call 564-5460. Native Plant Garden Tour April 16, www.sbbg.org to register.

Please return bottom portion along with your payment and make your check payable to City of Santa Barbara



**CITY OF SANTA BARBARA**  
POST OFFICE BOX 1990  
SANTA BARBARA, CA 93102-1990  
PHONE 805-564-5343

# Utility Bill

### ACCOUNT INFORMATION

BILLING DATE: 02/10/2011  
**DELINQUENT DATE: 03/02/2011**  
ACCOUNT NUMBER: 008222-725020  
**TOTAL NOW DUE: \$265.68**

AMOUNT ENCLOSED:

\*0082227250200026568\*  
\*0082227250200026568\*

REMIT TO:  
CITY OF SANTA BARBARA  
PO BOX 60809  
SANTA BARBARA, CA 93160-0809

19316008094!

85660082227250200000000000000026568

850502

PHOENIX AZ 85050

**BILLING DETAIL**

<b>WATER SERVICE</b>	<b>Usage</b>	<b>Unit Cost</b>	<b><u>Current Amount</u></b>
Irrigation Water Meter Charge			61.58
Irrigation-Block 1 Water Usage	27	\$4.900	132.30
Irrigation-Block 2 Water Usage	11	\$5.160	56.76
Utility Users Tax - Water			15.04
		<b>Subtotal:</b>	<b>\$265.68</b>
<b>OTHER CHARGES</b>			
Payment - Thank You			184.74CR
		<b>Subtotal:</b>	<b>\$184.74CR</b>
<b>TOTAL CURRENT CHARGES:</b>			<b>\$80.94</b>

**CONTACTS & PAYMENT OPTIONS****WHO TO CALL**

Billing questions? (805) 564-5343

Water Conservation questions? (805) 564-5460 or visit [www.SantaBarbaraCA.gov/water](http://www.SantaBarbaraCA.gov/water)

If your trash, recycling, or greenwaste is not picked up call: **Allied 805-965-5248**

Other questions about trash and recycling? (805) 564-5631 or visit [www.sbrecycles.org](http://www.sbrecycles.org)

**If you would like your monthly payment automatically deducted from your bank account contact the billing office at 805-564-5343 or download the form at [www.SantaBarbaraCa.gov/Government/Departments/Finance/Utility\\_Billing](http://www.SantaBarbaraCa.gov/Government/Departments/Finance/Utility_Billing)**

Credit card payments are only accepted at the City Hall cashiering office: **735 Anacapa, Santa Barbara, CA.**

**PROCEDURE FOR REVIEW AND APPEAL OF DISPUTED UTILITY BILLINGS**

1. REVIEW BY ACCOUNTING MANAGER. A customer who desires to dispute the accuracy of a bill for water, sewer, and/or refuse service shall, no later than 40 days from the date of the original bill, submit a written request to the City's Accounting Manager, or designated representative, for review of the bill. Upon such a request, the customer shall be given an opportunity for a review, investigation and hearing by the Accounting Manager, or designee, concerning the accuracy of the bill. The Accounting Manager, or designee, shall have the authority to correct an erroneous bill. The customer shall be given written notification of the decision regarding the dispute.

2. APPEAL TO FINANCE DIRECTOR. If a customer disagrees with the decision of the Accounting Manger, or designee, the customer may appeal that decision to the Finance Director. Any such appeal must be filed in writing with the Finance Director at City Hall within five (5) days after written notice of the decision of the

Accounting Manager, or designee, is given to the customer. The Finance Director, or a designated representative, may review the accuracy of the amount billed, but will not review appeals under this procedure concerning service, general level of rates, pending rate changes, source of water and similar matters. All decisions of the Finance Director will be final.

3. DISCONTINUANCE OF SERVICE FOR FAILURE TO PAY. Water service will be discontinued if a bill has not been paid in full and a timely and proper appeal has not been filed or an appeal has been denied and the appeal is final.

4. NOTICE. Under this review and appeal procedure, notice by City is deemed to be given when (1) personally given to the customer, (2) left at the premises where the service was given, or (3) enclosed in an envelope addressed to the customer with postage prepaid and deposited in the United States mail.

## **Water Shortage Contingency Plan**

### **Background**

On November 1, 1988 the City Council adopted a Drought Contingency Plan in anticipation of the worsening of the then current drought. While the plan provided useful guidance during the drought, the City's experience during the drought has suggested that a revised plan should have more flexibility. This is especially important with the increased diversity of the City's current water supply. Accordingly, the original Drought Contingency Plan has been updated as included herein. The revised title reflects the fact that water shortage may be induced by factors other than climatic drought.

The plan is intended to provide guidance, rather than absolute direction, for City action in response to water shortage. The stages are defined in relation to maximum acceptable shortage of 10% as approved in the Long-Term Water Supply Program. A moving 12-month total of production is used to monitor water usage during periods of normal supply and during water shortages, with actual consumption compared to the target on a monthly basis.

### **Potential Water Use Restrictions**

Chapter 14.20 of the Santa Barbara Municipal Code (applicable portions attached as Appendix C) defines specific water use restrictions that apply during water shortage conditions, subject to Council direction. These include the following:

1. Prohibition on water waste (prohibited at all times regardless of stage);
2. Prohibition on hosing of hard surfaces;
3. Restaurant notices required; no water service without request;
4. Operation of ornamental fountains prohibited;
5. Water shortage notices required in hotel/motel rooms;
6. Runoff prohibited;
7. Use of potable water prohibited when recycled water is available and deemed feasible;
8. Restrictions on irrigation (degree of restriction may vary from night-time irrigation only to complete prohibition on irrigation, except by hand-held bucket);
9. Shut-off nozzle required for boat and vehicle washing;
10. Introduction of water to swimming pools restricted;
11. Potential interruption of service to irrigation meters.

Action under each shortage stage includes a determination as to which, if any, of the above measures are necessary.

### **Rates and Revenue Issues**

Since 1989 the City has used an inverted block rate billing system providing standardized allotments for residential customers based on the type of building and number of dwelling units. Current rates are shown in Appendix D. Historical usage has not been used as the basis for allotments since it tends to penalize customers who practice efficient water use. Commercial and industrial allotments are based on historical off-peak usage since

standardized allotments are infeasible for such customers. The system worked well during the last drought when allotments and block prices were modified as necessary to shape demand and insure adequate revenue. The system proved to be workable even for the 50% shortages experienced. The City's experience has been that block prices and allotments are best determined based on actual circumstances rather than trying to determine appropriate values in advance based on hypothetical situations. In addition to revenue stability and demand management provided by the block rate billing system, a rate stabilization fund is maintained as a part of the Water Fund to dampen the impact that reduced sales would otherwise have on water rates.

### **Normal Supply Stage**

Definition: Supplies are considered normal as long as the projected water supply availability is sufficient to equal or exceed the projected normal demand for the next three years.

Actions:

- ⇒ Continue efforts to preserve water supply sources, such as management of watersheds to minimize siltation, banking of water as feasible to firm up deliveries through the State Water Project, and development of optimal groundwater pumping capacity;
- ⇒ Continue promotion of long-term water conservation practices designed to improve efficiency without impacting lifestyles, including high efficiency plumbing retrofits, low water using landscaping, efficient irrigation practices, public information regarding water awareness, and inverted block rate pricing;
- ⇒ Extend the use of recycled water where feasible and cost effective;
- ⇒ Monitor demand in terms of actual consumption and cumulative commitments to serve;
- ⇒ Water use restrictions are limited to prohibition of water waste.

### **Stage I Water Shortage Condition -- "Water Shortage Watch"**

Definition: A short-term water shortage condition declared by Resolution of the City Council upon being advised that projected supply availability during the next three years may be approximately 10% less than projected normal demand.

Actions:

- ⇒ Staff prepares a report to the Water Commission and City Council addressing:
  - Status of surface water supplies;
  - Status of City's groundwater resources and pumping capability;
  - Availability of desalination facility and related cost issues;
  - Projected deliveries of State Water Project entitlement;
  - Anticipated availability of surplus water through the State Water Bank or other temporary transfers of water;
  - Possible reduction in Cachuma deliveries to City in excess of reductions agreed to by member units to allow build-up of City carryover at Cachuma.
  - A range of water supply scenarios based on various levels of assumed rainfall;

- ⇒ Water Commission and City Council consider Staff recommendation regarding adoption of a resolution declaring a Stage I Water Shortage Condition.
- ⇒ Cachuma Project deliveries reduced by up to 20% as agreed by member units when Project storage drops below 100,000 AF;
- ⇒ Public advised of the City's water supply situation; reductions in water use are not anticipated to be necessary at this stage.
- ⇒ Water use restrictions are limited to prohibition of water waste.

### **Stage II Water Shortage Condition -- "Water Shortage Alert"**

Definition: A short-term water shortage condition declared by Resolution of Council upon being advised that projected supply availability during the current or impending water year is anticipated to be approximately 10% less than projected normal demand.

#### Actions:

- ⇒ Staff prepares a report to the Water Commission and City Council addressing:
  - Updated water supply scenarios based on various levels of assumed rainfall;
  - Need for:
    - ✓ Demand reduction by the public;
    - ✓ Water use restrictions;
    - ✓ Design and permitting work associated with temporary water supply augmentations;
    - ✓ Activation of the desalination facility;
  - Revenue projections and appropriate changes in water rates;
- ⇒ City Council considers staff and Water Commission recommendation regarding adoption of a resolution declaring a Stage II Water Shortage Condition.
- ⇒ Public advised of need for 10% demand reduction.
- ⇒ City Council gives direction regarding activation of the desalination facility.
- ⇒ Suspension of development approvals is considered.
- ⇒ Determine the need for water use restrictions pursuant to SBMC Section 14.20.215 and incorporate appropriate exemptions into the water shortage resolution.
- ⇒ Public information effort is aimed at advising the public regarding:
  - The City's water supply situation;
  - Efforts being made by the City to minimize impacts of the water shortage; and
  - The public's role in achieving demand reductions, if necessary.
  - Staff enforces water use restrictions, if any, pursuant to Council direction.
  - Staff implements rate changes, if any, pursuant to Council direction.

### **Stage III Water Shortage Condition -- "Water Shortage Emergency"**

Definition: A short-term water shortage condition declared by Resolution of Council upon being advised that there is a projected supply shortage of substantially greater than 10% as compared to the projected normal demand.

## Actions:

- ⇒ Staff prepares a report to the Water Commission and City Council addressing:
  - Updated water supply scenarios based on various levels of assumed rainfall;
  - Need for:
    - ✓ Further demand reduction by the public;
    - ✓ Increased water use restrictions, including potential prohibition on all uses other than drinking water and sanitation;
    - ✓ Accelerated design, permitting, and construction work associated with temporary water supply augmentations;
  - Review of revenue projections and appropriate changes in water rates;
  - Maximizing supply availability from desalination facility;
- ⇒ City Council considers staff and Water Commission recommendation regarding adoption of a resolution declaring a Stage III Water Shortage Emergency Condition pursuant to California Water Code, Chapter 3.
- ⇒ Revised demand reduction target is announced to public, accompanied by information about how to achieve required reductions and efforts being made by the City to resolve the water shortage condition.
- ⇒ Water use restrictions adjusted as necessary pursuant to Santa Barbara Municipal Code Section 14.20.215.B.
- ⇒ Consider need for expanding production capacity from desalination facility.
- ⇒ Evaluate revenues and the need for further rate changes; staff implements changes pursuant to Council direction.
- ⇒ Consider further action regarding suspension of development approvals.
- ⇒ Water use restrictions enforced by staff pursuant to Council direction.

While the City's long-term supply planning is based on a maximum acceptable shortage of 10%, unforeseen circumstances may dictate a need to respond to drought shortages of up to 50%. Based on the City's experience with the 1988-1992 drought, the measures identified above are expected to be sufficient to allow short-term demand reductions of up to 50%. Flexible application of block rates and allotments, water use restrictions, and public information will be used to meet the required demand reduction target.

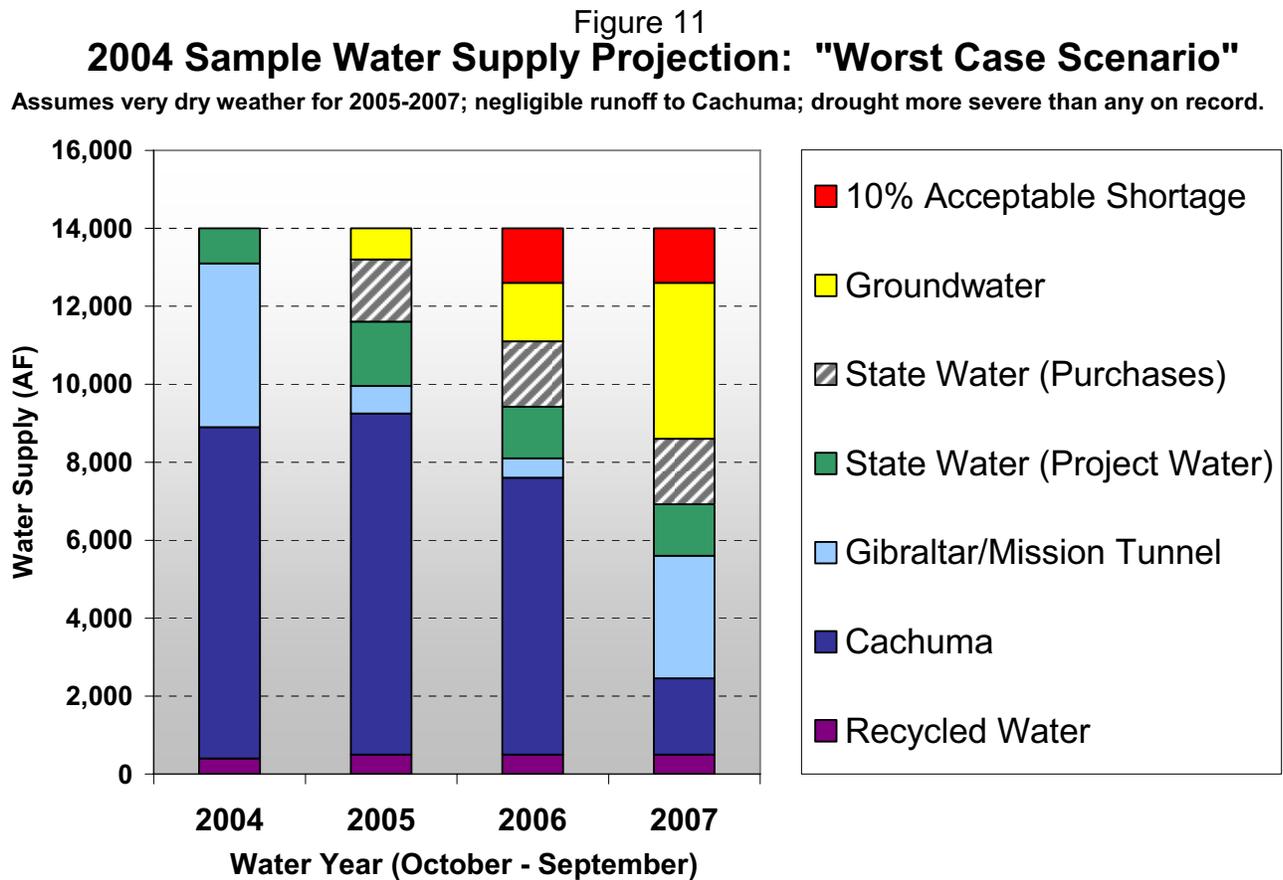
### **Mechanism for Measuring Actual Reductions**

Water is produced into the distribution system to meet the demand. Therefore measurement of water production is a simple mechanism for monthly, weekly, or even daily monitoring of water demand to determine the effectiveness of demand reduction measures. Such monitoring proved feasible and useful during previous severe drought.

### **Minimum Supply Estimate Three Year Dry Spell**

A large regional reservoir at Lake Cachuma provides more than three years of storage and has recently filled as a result of record rainfall during the past winter. Therefore, a look at 2006 through 2008 is not instructive for a three-year drought response. Instead, a projection used

during actual drought response planning in response to the most recent dry spell is used to illustrate a three year supply plan under conditions worse than any on record. In this plan, 2004 was the base year and the three years of projected minimum supply were 2005, 2006, and 2007. Figure 11 illustrates the declining availability of water from the primary reservoir at Lake Cachuma, holding water at Gibraltar Reservoir in reserve for use in year three, activation of groundwater wells to replace depleted surface water supplies, ordering of non-project water for delivery through State Water Project facilities under the Dry Year Water Purchase Program, and demand reduction of 10%, consistent with the adopted LTWSP.



**Catastrophic Supply Interruption**

Besides drought, the City may experience a catastrophic interruption of the water supply as a result of natural disasters such as earthquake or tsunami, a regional power outage, terrorism, or sabotage. Emergency administrative procedures are detailed and kept updated in the City’s Emergency Operations Center Manual. Noted below are planning and response measures particularly associated with the City’s water supply.

**Preparations for responding to catastrophic events:**

- A diverse portfolio of supplies provides redundancy that increases the likelihood of being able to meet emergency needs even under catastrophic conditions.

- Primary water supply sources and the main treatment plant have been planned to flow to the City by gravity to reduce normal operating costs and minimize disruption during disasters.
- A groundwater production system has been developed and maintained to augment supplies to the distribution system or provide direct emergency drinking water supplies should the distribution system be put out of service. In the event of prolonged power outage, power would be provided by portable generators.
- Back-up power supplies with automatic transfer switching and SCADA control capability have been installed at the primary water treatment plant and critical distribution pump stations.
- The potentially unstable and uncovered Sheffield Reservoir has been demolished and replaced with underground tanks designed and built to current seismic standards.
- Computerized telemetry system (SCADA) is being provided throughout the distribution system to monitor system problems, whether minor day-to-day problems or major disruptions.
- An ongoing program of water main replacement targets sections of the distribution system with highest history of breaks, which are vulnerable during earthquakes.
- Upgraded security, including more secure fencing, video monitoring, and alarms, is being provided at all water supply facilities.
- Public access to water supply facilities has been limited for security reasons.
- City distribution system crews are trained in pipe repair and replacement as a part of their normal duties and are continually ready to perform such work on an emergency basis as needed.
- All City employees are designated as emergency service workers and would be activated to do damage assessment and repairs, and to fill gaps left by staff that live out of town and may be unable to get to Santa Barbara due to disaster.
- The City's emergency response program includes emergency communications procedures that would be used for notifying the public about emergency water use restrictions, potential need to boil tap water prior to drinking, and locations where drinking water is available in the event of widespread distribution system failure.

Actions to be implemented during catastrophic conditions:

- Mobilization:
  - Supervisors assemble at Public Works Yard, 630 Garden Street
  - Determine which staff are present and which need to be contacted
  - Contact absent staff and direct them to report once families are safe
  - Check status of all equipment, refuel, and restock supplies on vehicles
  - Water Resources Laboratory staff mobilize at City lab and prepare for anticipated water quality test requests
- Dispatch crews to inspect, patrol, and report on condition of facilities and distribution piping in designated areas of the system:

Group A:

Vic Trace Reservoir & La Coronilla Pump Station  
 La Mesa Reservoir  
 Escondido Reservoir & Pump Station  
 Hope (Calle Las Caleras) Pump Station,

Hope Reservoir  
Campanil Hills Pump Station

Group B:

Reservoir No. 1  
East Reservoir & Bothin Pump Station  
El Cielito Reservoir and Skofield Pump Station  
Skofield Reservoir  
La Vista Reservoir  
Northridge Pump Station

Group C:

Reservoir No. 2  
Sheffield Reservoirs No. 1 and No. 2 and El Cielito Pump Station  
South Portal of Mission Tunnel  
Rocky Nook Pump Station  
Sheffield Pump Station  
Tunnel Road Reservoir & Pump Station  
Cater Cross-Tie Pump Station

Group D:

Wastewater Lift Stations at:  
Campanil  
Braemar  
Cliff Drive  
Linda Lane  
El Camino De la Luz

Group E:

Wastewater Lift Stations at:  
Skofield  
La Colina  
Via Lucero  
Tallant Road  
Miradero Lane  
Andante  
Vista Elevada

- Assign qualified staff to use SCADA telemetry system, to the extent it is still functional, to determine the extent of system damage and the most critical isolation points on the distribution system.
- Conduct a complete inspection of the Cater Water Treatment Plant and Ortega Groundwater Treatment Plant to determine status and extent of damage.
- Contact Cachuma Project operators (USBR and COMB) to determine condition of Bradbury Dam and related facilities.
- Contact the City's dam caretaker at Gibraltar Reservoir to determine condition of Gibraltar Dam and related facilities.
- Assess condition of City groundwater wells by measuring water levels and well depth, and taking water samples for analysis of water quality.
- Assess the condition of two tunnels (Ticolote Tunnel from Lake Cachuma and Mission Tunnel from Gibraltar Reservoir) by measuring flow from the tunnels. While earthquake may result in tunnel collapse, it is likely that some residual flow from tunnel infiltration will be available and will flow to the City's treatment plant by gravity.

- Assign qualified staff to utilize the City’s hydraulic computer model to simulate identified field deficiencies and run scenarios to identify the most efficient repair, isolation, or reconstruction recommendations.
- Prioritize distribution system repairs to best meet critical needs, including fire fighting, drinking water, and sanitation.
- Develop materials list for treatment plant and distribution system repairs and communicate with potential suppliers.
- Allocate available portable generators and pumps according to highest need for groundwater wells, flood remediation, sanitation, firefighting, or powering emergency facilities.
- Develop a clear message for dissemination to the public regarding:
  - Status of distribution system
  - Water use prohibitions
  - Allowable water uses
  - Potential need to boil drinking water prior to consumption
  - Location and availability of emergency drinking water in the event of distribution system failure.

Potential Catastrophic Interruption Scenarios:

Given the diversity of the City’s water supply, there is a range of catastrophic supply interruption scenarios that may occur. The following table summarizes some foreseeable interruptions. In an actual event, more detailed analysis would be conducted to assess the extent and duration of interruption and the alternatives for short term replacement of lost supplies.

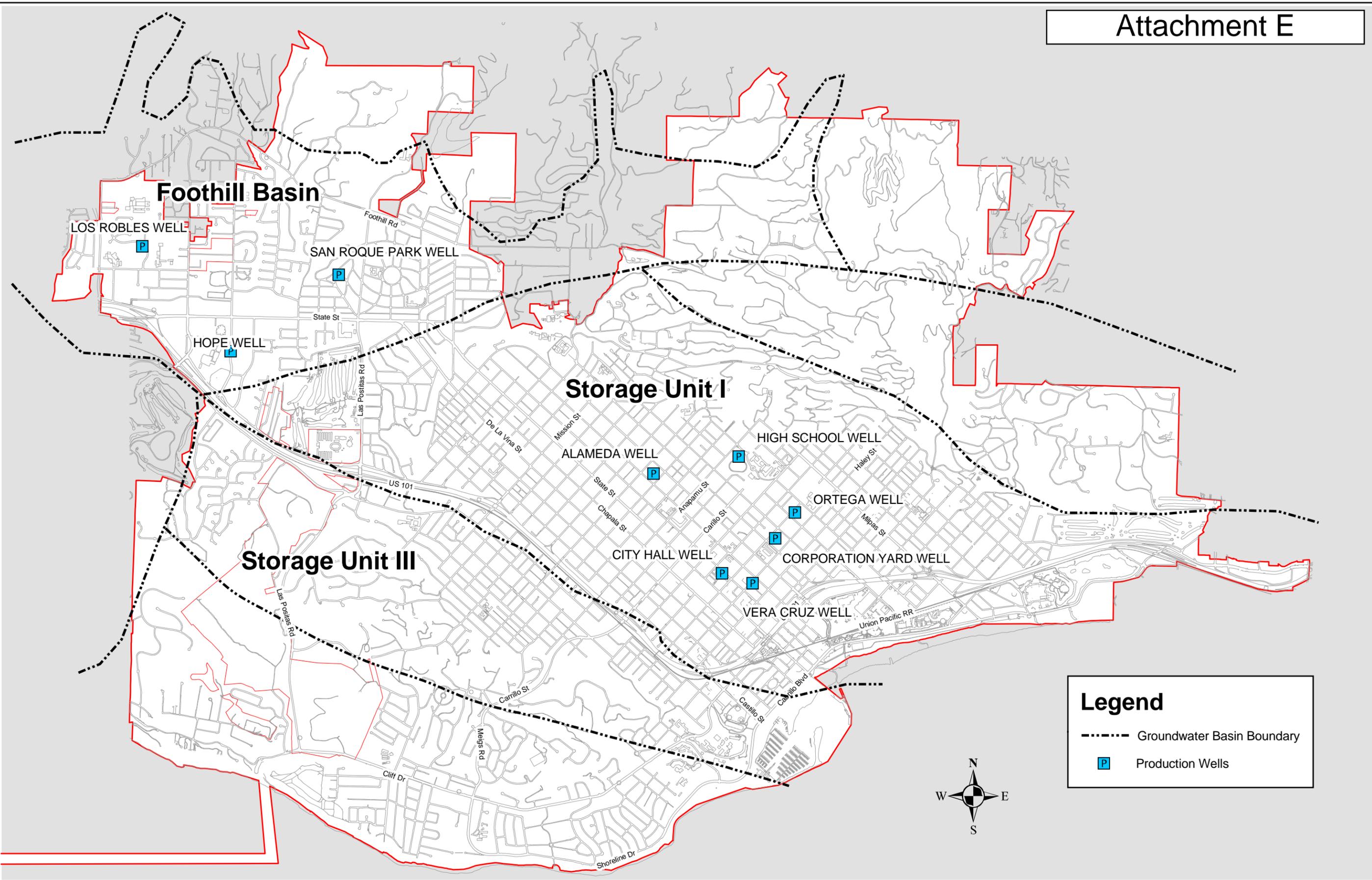
Catastrophic Interruption Scenarios

Description	Projected Water Supply Reduction	Anticipated Duration	Response
<u>Damage limited to distribution system:</u> Main breaks in various parts of the City	No reduction in supply; delivery capability interrupted to portions of the City	Ranging from days to months depending on extent of damage	<ul style="list-style-type: none"> <li>• Valve off damaged sections</li> <li>• Inventory customers without service &amp; provide for access to emergency drinking water as necessary</li> <li>• Prioritize repair efforts based on health, safety, and sanitation</li> </ul>
<u>Collapse of Mission Tunnel:</u> Supplies from Gibraltar Reservoir and Mission Tunnel infiltration interrupted	Initial loss of 35% to 50% of potable supplies; reduced to 12% to 27% by increasing Cachuma deliveries and groundwater pumping	Ranging from months to a year or more	<ul style="list-style-type: none"> <li>• Assess extent of remaining tunnel flow</li> <li>• Restrict irrigation uses</li> <li>• Water usage restrictions, pricing, and public notification to reduce water use to targeted level based on actual circumstances</li> <li>• Consider increases in State Water Project delivery requests</li> <li>• Initiate emergency design and construction process for repair of tunnel</li> </ul>

## Catastrophic Interruption Scenarios

(Continued)

Description	Projected Water Supply Reduction	Anticipated Duration	Response
<p><u>Collapse of Tecolote Tunnel:</u> Supplies from Lake Cachuma, tunnel infiltration, and State Water Project interrupted</p>	<p>Initial loss of 50% to 65% of potable supplies; reduced to 15% to 30% by increasing Gibraltar deliveries and groundwater pumping</p>	<p>Ranging from months to a year or more</p>	<ul style="list-style-type: none"> <li>• Assess extent of remaining tunnel flow</li> <li>• Curtail most or all irrigation uses</li> <li>• Water usage restrictions, pricing, and public notification to reduce water use to targeted level based on actual circumstances</li> <li>• Consider extent to which supplies are available to assist neighboring agencies affected by loss of Cachuma deliveries</li> <li>• Participate with COMB &amp; USBR in emergency design and construction process for repair of tunnel</li> </ul>
<p><u>Collapse of Tecolote and Mission Tunnels:</u> Supplies from Cachuma, Tecolote Tunnel infiltration, State Water Project, Gibraltar Reservoir and Mission Tunnel infiltration interrupted</p>	<p>Initial loss of up to 100% of normal potable supplies; reduced to 66% by initiating groundwater pumping</p>	<p>Ranging from months to a year or more</p>	<ul style="list-style-type: none"> <li>• Assess extent of remaining tunnel flow</li> <li>• Activate all available groundwater wells at maximum production levels</li> <li>• Consider public notification to accumulate emergency personal drinking water supplies while distribution system remains functional</li> <li>• Curtail all customer use other than water used for drinking – priority will be to maintain all available supplies and distribution capability for drinking water, sanitation, and firefighting</li> <li>• Initiate selected shut-down of portions of the distribution system to maintain functional pressure and flow in the remaining system; priority areas will be identified based first on firefighting needs, then on feeding emergency drinking water distribution stations</li> <li>• Consider shutting off customer service connections to assist in maintaining distribution system functionality</li> <li>• Initiate emergency design and construction process for repair of tunnels</li> <li>• Initiate emergency design and construction process for reactivation of desalination facility for mid-range contribution to water supplies</li> </ul>



**Legend**

- Groundwater Basin Boundary
- P Production Wells



# Santa Barbara Water

June 2010



City of Santa Barbara Annual Water Quality Report

## Water Treatment Plant Improvements

### High Quality Drinking Water – A Tradition

The Cater Water Treatment Plant was constructed in 1964 to treat water from Lake Cachuma for the residents of Santa Barbara. Over the years it has been expanded to also treat water from Gibraltar Reservoir, and to treat Cachuma water for Montecito, Summerland and Carpinteria. Currently chlorine is added at the beginning of the treatment process to condition the water so that organic matter is filtered out. Chlorine is also added at the end of the treatment process to provide a lasting disinfectant to keep bacteria from growing in the water.

### New Water Regulations

Recent changes in regulations set by the U.S. Environmental Protection Agency (EPA) require that the City change the way it treats our drinking water. The EPA has developed a stricter standard for disinfection by-products – chemical compounds that are formed when chlorine reacts with organic materials in the water.

### Ozone for Better Water Treatment

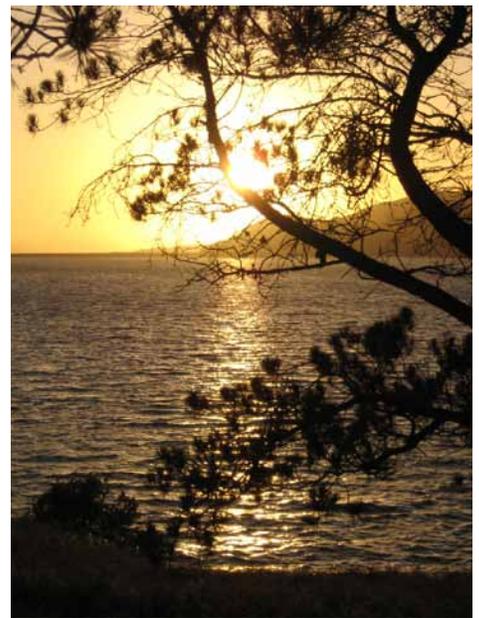
To comply with the new EPA regulations, the City will switch to using ozone at the beginning of the water treatment process. Ozone is more effective at conditioning water to remove organic matter.

Since the treated water contains less organic matter, fewer disinfection by-products are formed.

Ozone has been used in water treatment for over 100 years. Today there are over 400 water treatment plants in the United States using ozone. The construction costs for the ozone generation facility, ozone contactor (where ozone is mixed with water), and other related plant improvements are anticipated to be \$20 million. A low interest loan will provide the funds for this project. The loan will be repaid from water rate revenue. The project is scheduled to begin in 2011.



Cater Water Treatment Plant, located in the San Roque foothills



Lake Cachuma, Cater's main water source



## Special Info Available

*Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those who: are undergoing chemotherapy, have undergone organ transplants, have HIV/AIDS or other immune system disorders, or are very old or young can be particularly at risk from infections. These people should seek advice from their health care providers about drinking water. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the EPA Safe Drinking Water Act Hotline at 1-800-426-4791 or [www.epa.gov/safewater/](http://www.epa.gov/safewater/).*

## Drinking Water Treatment Regulations

The City gets most of its drinking water from Lake Cachuma and Gibraltar Reservoir. A portion of the City's water also comes from wells. As water travels over land or through the ground, it dissolves naturally-occurring minerals and, in some cases radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in the water source include:

- Microbial contaminants such as bacteria and viruses that may come from wildlife or human activity.
- Inorganic contaminants such as salts and metals that can be naturally-occurring or result from human activities.
- Radioactive contaminants, which can be naturally-occurring.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm-water run-off, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals that are by-products of industrial processes, petroleum production and use, or agricultural applications and septic systems.

To ensure safe drinking water, federal and state regulations limit the amount of certain contaminants in public water systems. Regulations also establish limits for contaminants in bottled water to provide protection for public health.

*In 2009, as in previous years, City of Santa Barbara water met all primary state and federal standards for drinking water. All of the drinking water that comes from Lake Cachuma and Gibraltar Reservoir is treated at the Cater Water Treatment Plant before being distributed to customers. Those who have questions about water quality may call the water department in their community and ask for a copy of their Consumer Confidence Report, such as this.*

## Safe Drinking Water Hotline and Web Site

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Act Hotline at 1-800-426-4791 or visiting their website at [www.epa.gov/safewater/](http://www.epa.gov/safewater/).

# State of the Water Supply



Conservation is one of many issues being studied to update the City's Long Term Water Supply Program. The update will assess the City's many supply sources, anticipated demand, and opportunities to boost water conservation and use of recycled water. For more information, visit: [SantaBarbaraCA.gov/water](http://SantaBarbaraCA.gov/water) or call 564-5460.



For Water Wise Gardening in Santa Barbara County website and CD visit: [SantaBarbaraCA.gov/water](http://SantaBarbaraCA.gov/water)

Many people wonder how the statewide drought, which has reduced State Water availability, has affected Santa Barbara. Fortunately, the City currently has very limited demand for State Water. Our primary water supply is Lake Cachuma, which is a multi-year storage facility that reduces the impact of periodic dry years. The Gibraltar Reservoir is another important water source. Gibraltar and

Cachuma filled completely in 2008 and the moderate El Niño conditions of 2010 were enough to fill Gibraltar and almost fill Cachuma again. Our water supply is in good shape, but we are always just a few years away from another potential drought. This is why water conservation is so important. Water saved this year is available for use in future years if local conditions turn dry again.

## Your Water Softener Setting

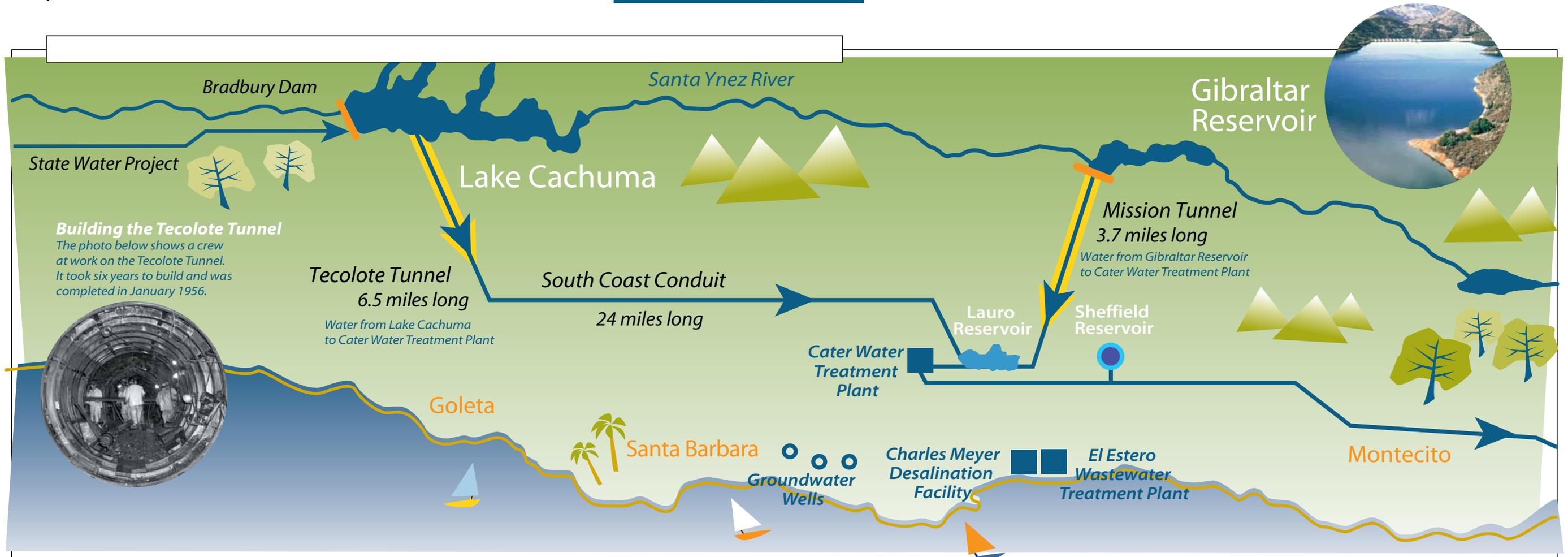
The City's surface water at Cater Water Treatment Plant has a hardness range of 20 to 25 grains per gallon. The City's groundwater supplies have a hardness range of 12 to 40. One grain per gallon equals 17.1 milligrams per liter.

## Radon

Radon is a radioactive gas that you can't see, taste, or smell that is found throughout the United States. It occurs naturally in certain rock formations. As a result, radon can be found in Santa Barbara's groundwater. Groundwater is a small part (7.6%) of the City's total water supply. Radon has not been detected in the City's surface water. Radon can enter homes through cracks or holes in foundations and floors. Radon can also get indoors when released from tap water. Test your home if you are concerned about radon. Testing is inexpensive and easy. For additional information, call your State radon program 1-800-745-7236, the EPA Safe Drinking Water Act Hotline 1-800-426-4791, or the National Safe Council Radon Hotline 1-800-SOS-RADON.

## Limited Potential for Contamination

The City has evaluated the vulnerability of our water supplies to contamination. For potential contaminants at Lake Cachuma, the use of two stroke engines contributes MTBE to the water. Gibraltar Reservoir's remote location, and the restriction of access to the reservoir limit opportunities for contamination. City groundwater supplies are generally located deep beneath the surface. Nonetheless, there is the potential for contaminants from surface sources such as gasoline stations and dry cleaners to reach City water supplies. All water sources are carefully monitored to ensure that pollutants are not present at levels exceeding state and federal standards. For more information, call 568-1008.



# 2009 City Drinking Water Quality Report

## Definitions

### Public Health Goal (PHG)

The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

### Maximum Contaminant Level Goal (MCLG)

The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

### Maximum Contaminant Level (MCL)

The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

### Maximum Residual Disinfectant Level Goal (MRDLG)

The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

### Maximum Residual Disinfectant Level (MRDL)

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

### Regulatory Action Level (AL)

The concentration of a contaminant which, if exceeded, triggers a treatment or other requirements which a water system must follow.

### Treatment Technique (TT)

A required process intended to reduce the level of contaminants in drinking water.

### Primary Drinking Water Standards (PDWS)

MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.

### Secondary Drinking Water Standards (SDWS)

MCLs for contaminants that effect taste, odor, or appearance of drinking water. Contaminants with SDWS do not affect the health at MCL levels.

### Unregulated Contaminant Monitoring Regulations (UCMR)

Data generated by the new UCMR will be used to evaluate and prioritize contaminants on the Drinking Water Contaminant Candidate List, a list of contaminants EPA is considering for possible new drinking water standards. Also known as "State Regulated Contaminants with No MCLs."

## Legend

**µg/L:** Micrograms per liter (parts per billion)

**mg/L:** Milligrams per liter (parts per million)

**ND:** Not detected at testing limit

**NTU:** Nephelometric Turbidity Units

**pCi/L:** PicoCuries per liter (a measure of radiation)

**µmhos/cm:** Micromhos per centimeter

**DBP:** Disinfection By-products

**NA:** Not applicable or no standard or no data

## PRIMARY STANDARDS

### Regulated Contaminants with Primary MCLs or MRDLs

Contaminant	Maximum Contaminant Level (MCL)	Public Health Goal	Highest Single Measurement		Samples $\leq$ 0.3 NTU		Major Sources in Drinking Water
			90th % Value	# of Sites Sampled	# of Sites Exceeding Action Level		
<b>Microbiological Contaminants</b> Turbidity (NTU)	NA	TT = 1 NTU TT = 95% of samples $\leq$ 0.3 NTU	0.06		100%		Natural river sediment/soil run-off
<b>Lead/Copper Rule</b> <i>Monitored at the Customer's Tap</i>							
Copper (mg/L)	AL, 1.3	0.3	0.26	31	0		Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (µg/L)	AL, 15	0.2	2.9	31	0		
<b>Disinfection By-products, Disinfectant Residuals, and Disinfection By-product Precursors</b>			System Wide Average		System Wide Range		
Total Trihalomethanes (µg/L)	80	NA	55.1		2.6 - 126		By-product of water disinfection
Haloacetic Acids (µg/L)	60	NA	8.6		ND - 19.0		By-product of water disinfection
Disinfectant - Chlorine as Cl <sub>2</sub> (mg/L)	MRDLG, 4.0	MRDLG, 4	0.63		ND - 2.60		Drinking water disinfectant added to treatment
Control of DBP Precursors - TOC (mg/L)	MCL	Public Health Goal	Surface Water Average	Surface Water Range	Groundwater Average	Groundwater Range	Various natural and manmade sources. Total Organic Carbon (TOC) has no health effects. However, it provides a medium for the formation of disinfection by-products.
	TT	NA	2.76	2.24 - 3.19	0.36	0.21 - 0.55	
<b>Radioactive Contaminants</b>							
Gross Alpha Particle Activity (pCi/L)	15	MCLG, 0	ND	NA	ND	ND - 3.7	Erosion of natural deposits
Radon (pCi/L)	NA	NA	NA	NA	315	310 - 320	See reporting notice on Radon in this report.
<b>Inorganic Contaminants</b>							
Aluminum (mg/L)	1	0.6	0.08	0.01 - 0.30	0.03	ND - 0.25	Erosion of natural deposits
Arsenic (µg/L)	10	0.004	1.3	1.1 - 3.5	0.5	ND - 1.9	Erosion of natural deposits
Chromium (µg/L)	50	MCLG, 100	1.8	ND - 5.6	4.3	ND - 11.9	Erosion of natural deposits
Fluoride (mg/L)	2.0	1	0.43	0.24 - 0.52	0.36	ND - 0.60	Erosion of natural deposits; discharge from fertilizer & aluminum factories
Nitrate as NO <sub>3</sub> (mg/L)	45	45	0.37	ND - 1.24	9.95	0.58 - 41.6	Erosion of natural deposits; run-off from fertilizer use
Selenium (µg/L)	50	MCLG, 50	ND	No Range	7.6	No Range	Erosion of natural deposits
<b>State Regulated Contaminants with No MCLs, i.e. Unregulated Contaminants</b>							
	MCL	Public Health Goal	Surface Water Average	Surface Water Range	Groundwater Average	Groundwater Range	
Boron (µg/L)	Notification Level, 1000	NA	380	No Range	110	70 - 160	
Hexavalent chromium, - Cr VI (µg/L)	NA	NA	ND	NA	0.58	ND - 1.90	Erosion of natural deposits

## SECONDARY STANDARDS

*Aesthetic Standards Established By the State of California, Department of Health Services. No adverse health affects from exceedence of standards.*

### Regulated Contaminants with Secondary MCLs

Contaminant	MCL	Public Health Goal	Surface Water Average	Surface Water Range	Groundwater Average	Groundwater Range	
Color (Units)	15	NA	ND	NA	0.25	ND - 7	Naturally-occurring organic materials
Copper (mg/L)	1	NA	0.01	ND - 0.05	0.02	0.001 - 0.09	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Iron (µg/L)	300	NA	ND	NA	42	ND - 280	Leaching from natural deposits
Manganese (µg/L)	50	NA	0.2	ND - 2.5	62.6	ND - 200	Naturally-occurring organic materials; causes discoloration of water
Methyl-tert-butyl ether (MTBE) (µg/L)	5	NA	ND	NA	1.5	ND - 6.6	Leaking underground gasoline storage tanks; discharge from gasoline and chemical factories
Threshold Odor Number at 60 °C (units)	3	NA	6	2 - 15	9	1 - 20	Naturally-occurring organic materials
Turbidity, Laboratory (NTU)	5	NA	0.12	0.07 - 0.20	0.4	0.09 - 1.23	Soil run-off
Uranium (µg/L)	NA	NA	NA	NA	6.5	5.8 - 7.2	Erosion of natural deposits
Zinc (mg/L)	5	NA	0.01	0.006 - 0.02	0.02	ND - 0.17	Naturally-occurring in trace amounts, but can be detected in soft, acidic water systems
Total Dissolved Solids (mg/L)	1000	NA	651	568-714	810	596 - 1160	Run-off / leaching from natural deposits
Specific Conductance (µmhos/cm)	1600	NA	925	852 - 1044	1156	866 - 1758	Run-off / leaching from natural deposits; seawater influence
Chloride (mg/L)	500	NA	22.2	17.2 - 27.4	100	42.8 - 213	Run-off / leaching from natural deposits; seawater influence
Sulfate (mg/L)	500	NA	268	216 - 300	236	156 - 369	Run-off / leaching from natural deposits

### Additional Constituents

pH (units)	NA	NA	8.05	7.80 - 8.22	6.99	6.61 - 7.22
Total Hardness as CaCO <sub>3</sub> (mg/L)	NA	NA	398	344 - 430	465	214 - 676
Total Alkalinity as CaCO <sub>3</sub> (mg/L)	NA	NA	190	178 - 204	248	200 - 313
Calcium as Ca (mg/L)	NA	NA	91.3	79.3 - 99.3	123	84 - 162
Magnesium (mg/L)	NA	NA	40	33 - 48	39	22 - 66
Sodium (mg/L)	NA	NA	45	39 - 52	67	42 - 100
Potassium (mg/L)	NA	NA	4.4	4.0 - 4.7	1.8	1.3 - 2.7

**Note:** Listed in the table above are substances detected in the City's drinking water. Not listed are more than 135 regulated and unregulated substances that were below the laboratory detection level.



City of Santa Barbara  
 Public Works Department  
 Post Office Box 1990  
 Santa Barbara, CA 93102-1990

PRST STD  
 U.S. POSTAGE  
**PAID**  
 SANTA BARBARA, CA  
 PERMIT NO. 1215

ECRWSS  
 Postal Customer



**Get the latest on Santa Barbara's drinking water.**

*See inside for the City's Water Quality Report.*

## Save Water Now – It's the Right Thing to Do!

- Rebates available on water wise landscaping, irrigation system upgrades, clothes washers and more
- Adjust your sprinkler timer's schedule based on the weather – use the landscape watering calculator and watering index
- Receive a free water check-up for your home or business
- Free rain sensor available



**For more information, go to [SantaBarbaraCA.gov/water](http://SantaBarbaraCA.gov/water) or call 564-5460.**

## En Español

Este informe contiene información muy importante sobre su agua beber.

Tradúzcalo o hable con alguien que lo entienda bien.

Si usted tiene preguntas acerca del agua de la ciudad, por favor llame a Don Montoya, a la oficina de Recursos del Agua, al teléfono (805) 564-5387.

## For More Information

**Questions on the City's water system, call 805-564-5387.**

**Questions on water quality, call 805-568-1008.**

**City of Santa Barbara Board of Water Commissioners meets at 3:00 p.m. on the second Monday of each month. Board sessions are open to the public and are usually held in the Public Works Conference Room, located at 630 Garden Street.**

**[SantaBarbaraCA.gov/water](http://SantaBarbaraCA.gov/water)**

SANTA BARBARA



Questions on Water  
 Call 805-564-5460



Printed on recycled paper

**City of Santa Barbara Public Works Department  
Water Resources Division**

**WATER CONSERVATION PROGRAM SUMMARY  
February 2011**

The City of Santa Barbara is a long-term leader in water conservation. The City's Water Conservation Program began as a response to the drought in the late 1970's. In 1988, the Water Conservation Program was increased as a result of the recommendations from the City's Five-Year Water Policy Action Plan. As a result of the 1987-1991 California Drought, the City accelerated implementation of the Water Conservation Program.

The City's current Water Conservation Program is a combination of the City's commitment to carrying out the California Urban Water Conservation Council's (CUWCC) Best Management Practices and the City's dedication to water conservation as an element of the City's Long-Term Water Supply Plan. The City joined the CUWCC in January 1992 as a result of signing the Memorandum of Understanding Regarding Urban Water Conservation. Since that time, the City has been actively carrying out the Best Management Practices as well as additional water conservation measures. Below is a description of the City's Water Conservation Program.

**Foundational BMPs**

**BMP 1. Utility Operations Programs**

**BMP 1.1 Utility Operations Practices**

**1. Conservation Coordinator**

The City's Water Conservation Program staff includes the FTE of one Water Resources Specialist, administrative support from one Senior Office Specialist, and 10 hours per week from a temporary Water Resources Technician.

**2. Water Waste Prevention**

City Ordinance No. 4558, adopted on February 1989, prohibits the waste of water defined as gutter flooding and failure to repair leaks in a timely manner.

**BMP 1.2 Water Loss Control**

Annually City completes the standard water audit and balance using the AWWA Water Loss software. The City's system unaccounted loss is ~10%. The City implements an annual water main replacement program. Age, material, and break history of water mains are tracked to determine overall condition of main in order to determine the priority of mains to be replaced. The City replaces three miles per year of the 275 miles of main in the distribution system.

**BMP 1.3 Metering with Commodity Rates for All New Connections and Retrofit of Existing Connections**

City meters all customers and has an inclining block rate structure.

**BMP 1.4 Retail Conservation Pricing**

City has an inclining block rate structure.

## **BMP 2. Education Programs**

### **BMP 2.1 Public Information Programs**

Water Conservation Hotline. The Hotline handles the incoming calls for the Water Conservation Program. Hotline staff schedule water checkups and provides administrative assistance to the Conservation Program.

Website. The City's Water Conservation Programs website is [www.savewatersb.org](http://www.savewatersb.org). Additionally the City promotes the regional water conservation program website, [www.sbwater.org](http://www.sbwater.org).

Water Conservation Brochures and Handouts. Brochures and handouts are distributed both hard copy and via the website on indoor water conservation, efficient irrigation and sustainable landscaping.

Video Loan. Videos on sustainable landscaping, water conservation, efficient irrigation, and water supply are available to the public to loan.

Media Campaign. An annual media campaign is implemented in conjunction with the Santa Barbara County Water Agency and funding from water purveyors countywide.

Water Bill Message. A monthly water conservation message is printed directly on the water bill.

Demonstration Gardens. The Water Conservation Program has two low-water using demonstration gardens, at Alice Keck Park Memorial Garden in conjunction with the Parks Department and the Firescape Garden in conjunction with the Fire Department.

Garden Wise Guys. Garden Wise Guys a thirty-minute television show about designing & maintaining a sustainable landscape. The quarterly show is produced by City TV and funded by the Santa Barbara County Water Agency, the City of Santa Barbara Public Works Department, and the Goleta Water District. It is hosted by two local landscape architects: Owen Dell and Billy Goodnick. With a unique sense of humor, the Garden Wise Guys will give viewers the basic information they need to start making changes in their own yard.

Water Wise Gardening for Santa Barbara County CD and Website.

A free "tool" for water wise gardening—a compact disc and website of gardening information tailored to our climate and our need for water conservation, titled "Water Wise Gardening in SB County". Available on CD or online at [www.savewatersb.org](http://www.savewatersb.org) or [www.sbwater.org](http://www.sbwater.org), it includes: extensive database with searchable information on over 1,000 water wise plants; more than 300 photos grouped into garden tours and garden galleries, all from local gardens Countywide; helpful facts, resources, and guidance on gardening design and practices; and links to other useful sustainable gardening sites.

### **BMP 2.2 School Education Programs**

Water education presentations are given in approximately 90 classes and summer camps per year. Water education materials are provided to schools. Tours of the City's water treatment facilities with free bus transportation are provided. The City participates in the Annual Water Awareness High School Video Contest.

## **Programmatic BMPS**

### **BMP 3. Residential**

#### **Residential Assistance Program**

The City's Water Resources Specialist conducts residential water surveys (water checkups) upon request by water customers. A water checkup includes evaluating all water uses on the property including, and providing recommendations to the customer for improved efficiency including both indoor usage, evaluating irrigation system, and specific recommendations on improvements and upgrades.

#### **Landscape Water Survey**

As an element of the water checkups staff performs site-specific landscape water surveys that include checking the irrigation system for maintenance and repairs, reviewing the irrigation schedule and making recommendations for adjusting program of irrigation controller, providing customer with evaluation results and water savings recommendations.

The City has conducted an average of 400 water checkups per year for a total of 9,290 surveys since June 1990 (this includes both residential and commercial water checkups.) Savings for this program is projected to be 400 AFY for the 20 year period as projected in the LTWSP.

#### **Smart Rebates Program**

The Smart Rebates Program is co-funded through Proposition 50 grant received by the California Urban Water Conservation Council (CUWCC) and participating water suppliers throughout California. The Program provides rebates for water users to improve their efficiency through appliance and equipment retrofits and replacements. The City is participating with water broom (high efficiency pavement washers) rebates at \$50 each, high efficiency clothes washer rebates at \$150 for residential customers, and \$400 for commercial customers; high efficiency toilet rebates at \$100 for residential customers and \$200 for commercial customers; and waterless or high efficiency urinal rebates at \$300 for commercial customers.

## City's Water Conservation Program

The City's Toilet Rebate Program was in place from August 1988 through June 1995. An \$80 rebate was issued per toilet retrofitted to a 1.6 gallon or less per flush toilet. The rebate was reduced to \$40 for the period July 1994 to June 1995. The total number of residential rebates that were issued is 18,842.

### **BMP 4. Commercial, Industrial and Institutional**

#### Commercial Water Checkups

As mentioned in the Residential BMP section, water checkups are offered for both commercial, industrial, and residential customers.

CII Toilet Rebates. 2,995 toilets at commercial sector sites were retrofitted during the City's Toilet Rebate Program from August 1988 through June 1995.

Save Water, Save a Buck CII Rebate Program. This rebate program offered rebates for the installation of water efficient fixtures for CII water customers and was coordinated by the Santa Barbara County Water Agency. Rebates issued through this program: toilets (1.28 gpf) = 80, (1.6 gpf) = 25, urinals = 21, and clothes washers = 32.

#### Smart Rebates Program

Currently commercial high efficiency toilets, waterless and high efficiency urinals, high efficiency clothes washers, and waterbroom. See information on Smart Rebates Program in Residential BMP section.

Rinse and Save Pre-rinse Spray Valve Program. Through *Rinse & Save*, an innovative door-to-door installation program, restaurants in the City received a free 1.6 gpm pre-rinse spray valve. 199 spray valves were installed in the City in 2003, and 104 from January to September 2005, for a total of 303. Each replaced valve will save approximately one acre foot (326,000 gallons) of water over five years. *Rinse & Save* Program is administered by the CUWCC and funded by a grant from the California Public Utilities Commission and the participating agencies.

Lodging Industry Water Conservation Program consists of table tents and door hangers encouraging patrons to conserve water for lodging industry as well as educational videos for lodging industry staff.

Restaurant Table Cards are provided which inform restaurant customers that water will be served upon request.

## **BMP 5. Landscape**

### Smart Landscape Rebate Program

The Smart Landscape Rebate Program offers rebates to increase water efficiency in both the commercial and residential landscapes. Rebates on approved irrigation equipment and landscape materials will be up to 50% of material costs. Rebates are available for up to \$1,000 for single family homes and up to \$2,000 per account serving irrigated area (\$4,000 per site) for commercial, multi-family, and HOAs. Rebate will cover: drip irrigation parts, sprinkler system efficiency retrofits and rotating sprinkler nozzles; water-wise plants and mulch; and smart irrigation controller. The process is 3 steps: a pre-inspection, a 60 day window to complete the approved projects and then a post-inspection. Since the program began in April 2009, there have been 146 participants, with 86 properties completing the rebate process to date.

### California Landscape Budgets Program (CLBP)

This program provides monthly water use reports via [www.landscapebudgets.com](http://www.landscapebudgets.com) for the properties served by dedicated irrigation meters and compares the usage to a weather-based water allocation calculation. The goal is to provide education to the customers, as well as monthly reporting, identifying ways to help customers irrigate more efficiently. Currently, all City dedicated landscape irrigation meters billing is based on a water budget calculated from historical evapotranspiration data.

### Green Gardener Program

The City of Santa Barbara and the Santa Barbara County Water Agency began in March 2000 the Green Gardener Program (GGP) along with eleven other partnering agencies and organizations. The GGP trains gardeners in resource efficiency and pollution prevention landscape maintenance practices. In order to be a Green Gardener, gardeners attend a fifteen-week training session (two and half hour class per week) taught in both English and Spanish covering topics including water efficiency, non-point source pollution reduction, fertilizing, integrated pest management, and reduction of air pollution emissions and green waste. A test covering training material is required for Green Gardener status plus annual ongoing educational requirements. This program includes promotion of the Green Gardeners through advertising and a list of gardeners distributed by partnering agencies and on [www.greengardener.org](http://www.greengardener.org). So far, the GGP countywide has trained 1,000 gardeners.

### California Irrigation Management Information System (CIMIS)

Two CIMIS weather stations are owned by the California Department of Water Resources (DWR) are located on the City's Golf Course and the Vic Trace Reservoir. City staff assists in maintenance of the stations. CIMIS is a network of weather stations that automatically read and collect information on wind speed and run, average vapor pressure, air temperature, relative humidity, dew point, solar radiation, soil temperature, and precipitation. The information is transmitted to a central computer data base in Sacramento which gives daily evapotranspiration rates that can be accessed on DWR's website.

## City's Water Conservation Program

### Smart Irrigation Controller Distribution Program

In May 2002, the Santa Barbara County Water Agency, City of Santa Barbara, and Goleta Water District began implementing the Smart Irrigation Controller Distribution Program. The program involves distribution and installation of Weather TRAK ET irrigation controllers at no cost to residential customers with significant landscape water usage. The Weather TRAK ET Controller automatically calculates a scientifically-based irrigation schedule based on several factors, including plant and soil type. It then adjusts the irrigation schedule as local weather changes. To date, 180 irrigation controllers have been installed in the City.

### Watering Index and Landscape Watering Calculator

**Landscape Watering Calculator:** This is an easy-to-use web-based tool that helps estimate the right amount of water to give a landscape. The calculator has been designed to give a weekly irrigation schedule. Information needed is zip code of the site, the type of plants watered by a particular station on the irrigation system, the soil type, and the sprinkler type. Available at [www.SantaBarbaraCA.gov/water](http://www.SantaBarbaraCA.gov/water).

**Watering Index:** On many irrigation controllers there is a feature called "water budget", or seasonal adjust, which one can easily adjust the watering schedule as the weather changes. Set the water budget to the weekly watering index (W.I.) which represents the recommended percentage setting for the water budget feature. The W.I. is normally 100% for much of July and August. Over the course of the year, the W.I. changes to reflect the landscape's changing need for water as climatic conditions change. As new W.I. values are published weekly, the controller's water budget feature should be changed to match to current W.I. value. For the weekly watering index, visit [www.SantaBarbaraCA.gov/water](http://www.SantaBarbaraCA.gov/water).

### Free Rain Sensor Program

Free rain sensors are now available from the City of Santa Barbara and Goleta Water District. Rain sensors automatically shut off the sprinkler timer during and immediately after it rains, thus saving tremendous amounts of otherwise wasted water. There are two options to receive a rain sensor: 1. receive a voucher of up to \$50 and purchase a rain sensor from approved list, or 2. receive a free rain sensor with a brief training on how to install it. The goal of the rain sensor rebate program is to reduce the amount of water wasted by automatically shutting off irrigation controllers during rain events. Since April 2008, 416 rain sensors have been distributed to City water customers.

### Graywater

The City provides outreach on the use of graywater with handouts, fact sheet, sample plan sheet, workshops and information on the City's website. City promotes use of graywater in accordance with the California Plumbing Code Chapter 16A.

**Landscape Design Standards.** On August 12, 2008, the City Council adopted the revised Landscape Design Standards for Water Conservation, Resolution No. 08-083. The Landscape Design Standards were originally adopted by resolution of the City Council on June 27, 1989. There has been much progress in irrigation technology and sustainable landscaping practices in the last 19 years; therefore, it was time to bring the standards up to date. Chapters 14.23 and 22.80 of the Santa Barbara Municipal Code require projects that are subject to design review to comply with Landscape Design Standards.

### **Additional Programs**

#### **Regional Cooperative Programs**

The City participates in many regional water conservation programs with neighboring water purveyors. The Santa Barbara County Water Agency's regional water conservation program administers these programs.

**City Facilities Water Conservation Retrofit Program.** City facilities are equipped with the latest in water-saving devices, including waterless urinals, low-flow toilets and showerheads. Many City facilities and parks are landscaped with water-wise plants. City facility and parks irrigation systems continue to upgrade with smart irrigation controllers, rain sensors and state-of-the-art irrigation equipment. To date, 145 low-flow showerheads, 317 low-flow toilets, and 22 waterless urinals are installed in City facilities. Eight City public restrooms are plumbed with recycled water for toilet flushing. In one City facility retrofitted two years ago with four waterless urinals, the building's water use has decreased by 45%.

**City Facility Requirements for New Construction and Renovations at City Facilities.** Require state-of-the-art water conservation technology for landscape, irrigation and plumbing for new construction and renovations at City Facilities. Approved by Resolution No. 08-008 on February 5, 2008.