

PROPOSAL

FOR

CONTRACT OPERATION AND  
MAINTENANCE OF SANITARY  
SEWER AND TREATMENT  
FACILITIES FOR COUNTY SERVICE  
AREA NO. 7, BOULDER CREEK

JANUARY 21, 2004

SUBMITTED BY:

CALIFORNIA AMERICAN WATER  
*A Subsidiary of American Water*

January 20, 2004

Rachel Lather-Hildago  
Sanitation Engineer  
County of Santa Cruz  
Department of Public Works  
701 Ocean Street, Room 410  
Santa Cruz, CA 95060

**Re: Response to Request for Proposal for Operation and  
Maintenance of Sanitary Sewer and Treatment  
Facilities for County Service Area No. 7, Boulder Creek**

Dear Ms. Lather-Hildago:

California American Water is pleased to submit its enclosed proposal in response to your request for proposal (RFP) for operations and maintenance of the sanitary sewer and treatment facilities for County Service Area No. 7, Boulder Creek (Boulder Creek Sewer System).

Our proposal responds fully to the RFP. Notably, California American Water offers a business partnership arrangement that will deliver high quality professional services to the Boulder Creek Sewer System at a competitive though responsible price. California American Water also possesses the managerial, technical and operational capabilities to maintain the Boulder Creek Sewer System in compliance with the requirements of all its regulatory permits. Lastly, we are confident that we will be able to add value to the Boulder Creek Sewer System through innovative and efficient operations and effective system management.

As requested by the RFP, California American Water acknowledges that we have read and agree to the terms set forth Section IX, Notice to All Interested Parties (Disclaimer), of the RFP.

We look forward to your favorable review of the enclosed proposal and being selected to provide professional services to the Boulder Creek Sewer System. Please contact me (619-409-7703) or our local manager, Steve Leonard (831-646-3214), if you have any questions about the enclosed proposal or require any additional information.

Sincerely,



B. Kent Turner  
Vice President, Business Development

American Water  
Western Region

B. Kent Turner  
Vice President  
303 H Street, #250  
Chula Vista, CA 91910

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## 1. Statement of Qualifications

California American Water is a premier provider of water, wastewater and other related services for over 35 years and one of the largest investor-owned water utilities in California. California American Water currently provides water and wastewater services to more than 500,000 people (165,000 connections) in seven counties, from Sacramento to San Diego. Its operations are organized into three divisions: Southern, Coastal and Northern. In the Central Coast area, California American Water provides water and wastewater services to over 105,000 people (39,000 connections) in Monterey County and 4,400 people (1,350 connections) in Santa Cruz County (Town of Felton). A brief description of each operating division is provided in Appendix A. California American Water also serves as the regional hub for the Western Region of American Water, providing support and resources for the company's water systems from Hawaii to Texas.

In addition to owning and operating water and wastewater systems, California American Water provides contract operations and maintenance services to municipal clients. California American Water has a successful long-term water system lease arrangement with the City of East Palo Alto and is also the contract operator for the Descanso Water District in San Diego County. Additionally, California American Water has been very active in operating and acquiring small water and wastewater systems in Monterey County. California American Water acquired the following five systems from Monterey County on April 1, 2003: County Service Area No. 10 – Laguna Seca Sanitary Sewer and Treatment System; (ii) County Service Area No. 69 – Ralph Lane Water System; (iii) County Service Area No. 72 – Las Palmas Sanitary Sewer and Treatment System; (iv) County Service Area No. 75 – Chualar Water System; and (v) Carmel Valley County Sanitation District. Prior to the completion of the acquisitions, California American Water provided contract operations and maintenance services to these five Monterey County-owned systems for over one year.

American Water is the parent company of California American Water and the largest water and wastewater services company in the North American. American Water is part of RWE-Thames Water and has been managing and operating water systems in the United States for more than 115 years. American Water currently serves 20 million customers in 27 states, 4 Canadian provinces, Puerto Rico and South America. Over 8,000 employees provide water, wastewater and other related services. RWE-Thames Water is the third largest water and wastewater services company in the world.

American Water is also one of the largest contract operators in North America and currently provides water and wastewater services to over 175 public and industrial clients in the United States and Canada. American Water has been providing contract operations and maintenance services—from full service utility management, operations and maintenance to selective services such as customer billing, meter reading and capital development—since the 1940s and has significantly expanded this part of its business in recent years.

## 2. Client References

Sandy Salerno  
Finance Director  
City of East Palo Alto  
2415 University Avenue  
East Palo Alto, CA 94303  
Tel. (650) 853-3100

*Note: California American Water currently provides comprehensive utility operations and management services to the City's water system under a long-term lease agreement.*

Lew Bauman  
Public Works Director  
Monterey County  
312 East Alisal Street  
Salinas, CA 93902  
Tel. (831) 755-4800

*Note: As part of its acquisition of 3 wastewater and 2 water systems owned by Monterey County, California American Water operated and managed the 5 systems on interim basis for 14 months, during the regulatory approval process American Water completed the acquisition of the 5 systems this year and now owns and operates the 5 systems.*

Allen Sawyer  
President, Board of Directors  
Descanso Community Water District  
P.O. Box 610  
Descanso, CA 91932  
Tel. (619) 997-0544

*Note: California American Water currently provides comprehensive contract utility operations and management services to the District's water system.*

## 3. Project Implementation Approach

California American Water is an experienced, qualified and innovative operator of utility systems dedicated to delivering value and providing professional operation and maintenance services to the sanitary sewer and treatment facilities for County Service Area (CSA) No. 7, Boulder Creek (Boulder Creek Sewer System). California American Water understands fully the operational, environmental and regulatory environments within California and possesses the managerial, operational and technical capabilities and expertise to ensure a successful transition and operation of the Boulder Creek Sewer System and a beneficial partnership between the parties.

Overall, California American Water's operating plan is to integrate the management, operations and maintenance of the Boulder Creek System into California American Water's Coastal Wastewater Division. The operations group for the Boulder Creek System would be based out of the Felton District Office and Yard (Felton District)—which is located approximately 30 minutes driving time from the Boulder Creek Sewer

System—and backed up and supported by the much larger and nearby Monterey District Wastewater Operations Group (Monterey District). The operating plan will ensure that the cost efficiencies are achieved and service levels and system reliability are enhanced. The primary benefit of the proposed operating plan is that the Boulder Creek System will become part of the much larger Coastal Division, supported by the Monterey District's substantial wastewater capabilities, resources and expertise.

California American Water will implement a comprehensive and integrated strategy for the successful transition, operations and management of the Boulder Creek Sewer System. The program will be built on the positive experience gained by California American Water in a number of similar small system projects in Monterey County. In every case the approach and performance of these utility transitions into the American Water system has been efficient and beneficial to both customers as well as clients.

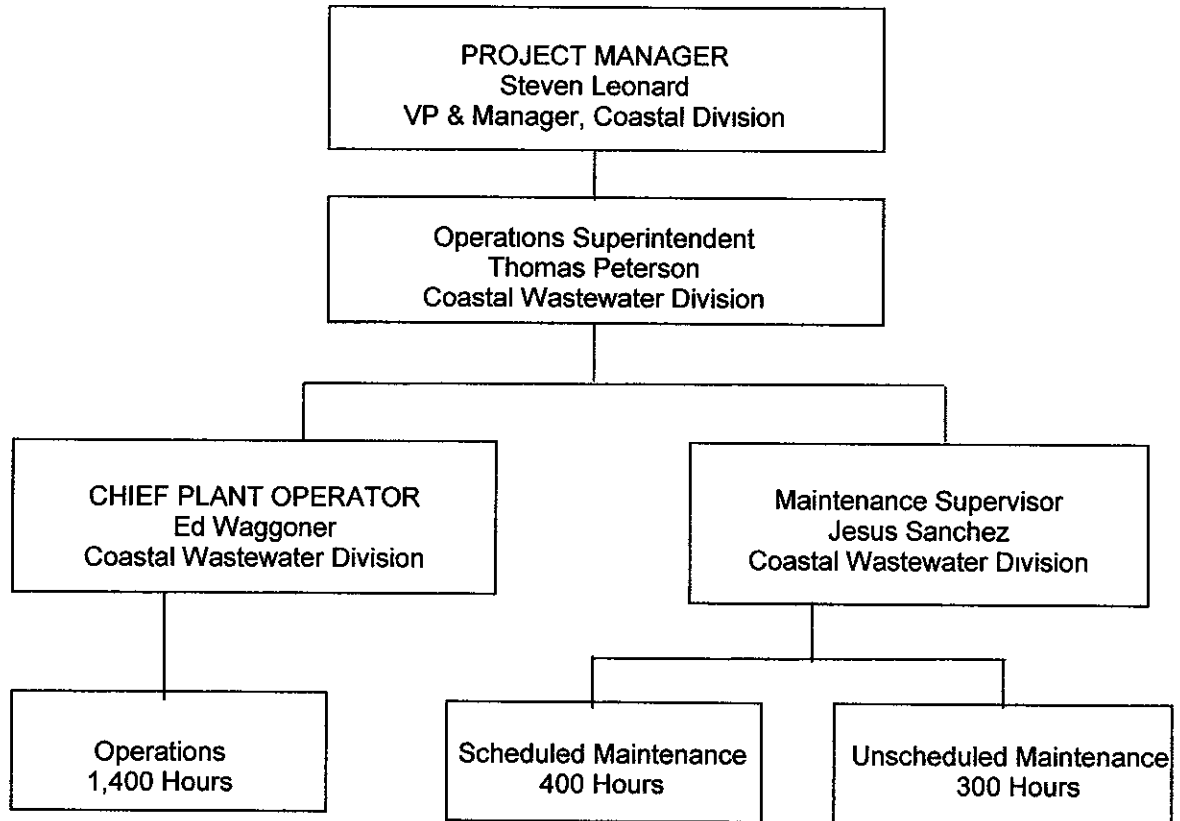
### **3.1 Staffing Plan**

*System Management.* California American Water will be the point of direct responsibility for successful delivery of contract operations and maintenance services to the Boulder Creek Sewer System. Steven Leonard is Vice President and Manager of California American Water's Coastal Division and will be directly responsible for the Boulder Creek Sewer System and communication with Santa Cruz County management. California American Water's senior management team will maintain a regular review process of the performance and client satisfaction results from our work for the Boulder Creek Sewer System. Thomas Peterson, Superintendent of the Coastal Division's Wastewater Treatment and Collection Operations, will be responsible for the day-to-day management of the Boulder Creek Sewer System. Ed Waggoner, Operations Supervisor of the Coastal Wastewater Division, will be designated the Chief Plant Operator for the Boulder Creek Sewer System and responsible for supervising the operators assigned to the Boulder Creek Sewer System. Jesus Sanchez, Maintenance Superintendent for the Coastal Division, will be responsible for supervising all maintenance activities related to the Boulder Creek Sewer System. Mr. Leonard, Mr. Peterson, Mr. Waggoner and Mr. Sanchez together will comprise the Management Team for the Boulder Creek Sewer System and their respective resumes are attached hereto as Appendix B.

*On-Site Staffing.* California American Water has estimated on-site staffing requirements to perform the scope of work set forth in Section IV of the RFP of 2,080 operator hours. California American Water will assign two wastewater operators based at the Felton District to the Boulder Creek Sewer System. A third back-up operator based at the Felton District will also be assigned to the Boulder Creek Sewer System for purposes of back-up and confined space activities. Together these three operators will perform the Scope of Work set forth in Section IV of the RFP. Notably, the staff assigned to the Boulder Creek Sewer System will be equipped and certified, qualified and fully competent to perform the Scope of Work set forth in Section IV of the RFP. Additionally, when necessary and appropriate, California American Water will enhance staffing levels by utilizing contractors for specialty services. Overall, California American Water is committed to maintaining full compliance with all legal and regulatory requirements for the Boulder Creek Sewer System and will accomplish this by maintaining proper staffing levels with the necessary operator certifications and qualifications and operational support for the Boulder Creek Sewer System.

*Operational Support and Back-Up.* California American Water will utilize its larger Monterey District Wastewater Operations (Monterey District) to support and back-up the operations and maintenance activities for the Boulder Creek Sewer System. The Western Region office of American Water will provide additional support and back up, specifically in the areas of engineering, maintenance, operations, water quality, accounting, risk management, human resources, communications, safety and training

*Organizational Chart.* An organizational chart for this project would be as follows:



### **3.2 Operations and Maintenance Plan**

As detailed both above in the Staffing Plan and below in this section, California American Water has developed an operation and maintenance plan (O&M Plan) for the Boulder Creek Sewer System that: (i) responds fully to the Scope of Work set forth in the RFP; (ii) will maintain the System in full compliance with all legal and regulatory requirements and enhance service and system reliability; and (iii) will deliver value to the homeowners of CSA No. 7. The O&M Plan takes full advantage of California American Water's existing operating footprint in Monterey and Santa Cruz Counties and all of it's the resources, expertise and capabilities this footprint offers. Under this O&M Plan, Boulder Creek will become part of the much larger and innovative Coastal Wastewater Division of California American Water and benefit directly from the resulting economies and efficiencies afforded by system integration.

*Operations.* California American Water proposes the following operations plan for the Boulder Creek Sewer System. The operators assigned to the Boulder Creek Sewer System will be based at the Felton District—which is located approximately 30 minutes from Boulder Creek—and supported and backed up by the larger Monterey District personnel and resources. The operator assigned to the Boulder Creek Sewer System will be provided a half-ton pickup truck, stocked with all the necessary tools and equipment to perform the daily on-site activities.

**Daily: One Operator / 4 Hours Per Day; Seven Days Per Week**

- Operator arrives at wastewater treatment plant (WWTP), inspects grounds and starts processing sludge.
- Operator leaves WWTP to inspect each of the four pump stations, recording pumping hours and flows; each day starts different generator and places on line as part of the generator assurance program.
- After checking all pump stations and returning generator to stand-by status, operator returns to WWTP and performs daily routines and locks up.

**Weekly: One Operator / 2 Hours**

- Operator disposes of processed sludge in a dumpster and positions dumpster for pick up by Waste Management.
- Operator takes compliance samples and brings samples to Felton District for transfer to California American Water's Carmel Valley Ranch Laboratory located in Monterey County.

**Monthly: One Operator / 8 Hours**

- Operator refuels generators, checks battery and coolant levels.
- Operator rotates leach fields.

*Scheduled Maintenance.* California American Water will review and revised as necessary the existing predictive/preventive maintenance (PM) program for the Boulder Creek Sewer System to ensure that system equipment and facilities are properly maintained and protected and that all pertinent PM items. California American Water will utilize a computerized maintenance management system to control and sequence all maintenance activities performed on the Boulder Creek Sewer System. California American Water will also perform daily observations of equipment and analyze regularly data collected, which will assist in determining the required maintenance and success of the PM program. The PM program will consist of the following activities:

- Submersible pumps (all pumps at BCG&CC are submersible) will be checked for insulation degradation regularly (semi-annually) with a meg-ohm meter. Pumps are pulled and serviced when resistance to ground drops beneath acceptable levels. Flows and pump run cycles are monitored with a maintenance software package integral to the redundant alarm system. Pumps are pulled and serviced when either flow or run time cycle exceeds two standard deviations.
- Generators are tested under load weekly. Oil and fuel levels are inspected monthly and filled as needed. A generator maintenance contractor provides quarterly servicing and filter replacement as required.



- Electrical controls are inspected and serviced semi-annually by a qualified instrumentation electrical technician. This inspection includes IR camera documentation for comparison over time. Loose connections are tightened, vermin evicted, and analog signals calibrated.
- Blowers will be inspected semi-annually and will include IR inspection and vibration analysis for predictive maintenance.
- Collections lines, manholes and clean outs will be inspected and cleaned at least two times each year, and more if required. Additionally, collection lines will be flushed two times each year using a hydro truck and remote reel.
- Lift stations will be inspected and serviced weekly.
- Leach fields will be inspected and rotated as part of the normal operations routine by the plant operator.

California American Water will utilize both its own personnel and outside contractors as needed to perform the maintenance activities described above.

*Unscheduled Maintenance.* California American Water will perform emergency or unscheduled repairs on the Boulder Creek Sewer System in accordance with its current procedures, which is outlined below.

1. Identify Problem.
2. Identify Scope of Problem and take mitigative action.
3. Determine repair priority.
4. Initiate Emergency Repairs if necessary.
5. Notify Maintenance Superintendent of problem, solution, and costs if necessary.
6. Obtain parts or services.
7. Conduct repair.
8. Perform operational test.
9. Restore to service.
10. Investigate cause of problem and make corrections.

*After Hours and Emergency Response.* California American Water will utilize its Felton District existing after hour's on-call personnel to provide 24 hours a day, 7 days a week after hours and emergency response to the Boulder Creek Sewer System. Additionally, California American Water would require that CSA No. 7 install redundant interactive alarms to provide remote control of the pumps at the five pumping stations.

*Confined Space Entries.* California American Water will undertake confined space entries at the Boulder Creek Sewer System in accordance with California American Water's written procedures and protocols for permit required and non-permit required confined space entries. Moreover, all confined space entries performed by California American Water at the Boulder Creek Sewer System will be supervised by management and permitted by the Coastal Division's safety officer based at the Monterey District.

*Laboratory.* The operator assigned to the Boulder Creek Sewer System will perform process control analysis on site. This operator will also take samples in accordance with

regulatory permit compliance requirements and send them to Monterey Bay Analytical Laboratory for analysis.

*Water Quality Reporting.* The Monterey District Office personnel currently prepares and submits all required water quality reports for 15 permitted water and wastewater systems operated by California American Water in the Monterey County area. All required water quality reports for the Boulder Creek Sewer System will be prepared and submitted by the Monterey District Office personnel.

### **3.3 Mobilization Plan and Schedule**

*Mobilization.* California American Water possesses the capability and resources to mobilize the required personnel, equipment and materials as part of the preparation to commence operating the Boulder Creek Sewer System. To ensure a successful mobilization, California American Water will establish a support team to support, assist and troubleshoot the mobilization and dedicate personnel as required to troubleshoot and quickly respond to mobilization issues as they arise. One of the primary goals will be to secure operational functionality and effectiveness to ensure that operational and emergency procedures are established and in place. This will ensure that California American Water will be able to maintain compliance with all local, state and federal laws and regulations right from the start of the project. California American Water will begin staff training and development 30 days prior to taking over the operations to ensure that the on-site staff will be trained and prepared to operate the system. California American Water also plans to work closely with Monterey County staff during the mobilization period to ensure that client issues are identified and addressed in a timely manner. Mobilization costs are included in the proposed annual service fee set forth below.

*Schedule.* The mobilization schedule for the project is described below.

- Weeks 1&2: Operations of Facilities.  
Operators Duty Assignments.  
Familiarize Staff with all records, equipment, logs, and California Regional Water Quality Control Board (RWQCB), Monterey Bay Pollution Control District (MBPCD) and the County of Santa Cruz Health Department (CSCHD) requirements.  
Initiate Necessary Training for Operators.
- Week 3&4: Review Preventative Maintenance Program.  
Process Evaluation.  
Safety Evaluation.  
Monthly reports to Owner formatted.  
Maintenance and Repair logs.  
Operate Systems.
- Week 5&6: Refine Operations  
Make listing of problems and issues and suggested actions  
Review and modify, if necessary, operations logs.  
Implement changes to PM Program.  
Operator Training Program on Specific Equipment.  
Operate Systems, refine duties and expectations.

Week 7&8: Full Operations and Maintenance.  
Commence General Training  
Recommendations on any issues and action plans.

*Post Mobilization.* California American Water will dedicate personnel as required to troubleshoot and quickly respond to post-mobilization issues during the first 60 to 90 days of the operation to ensure a seamless and orderly transition and integration of operational and maintenance activities.

#### **4. Project Pricing**

*Annual Service Fee.* As compensation for California American Water performing the scope of work set forth in Section IV of the RFP, California American proposes that CSA No. 7 pay California American Water as follows: (i) an annual service fee (Service Fee) of \$205,600 for the first year, provided, however that if the total annual costs related to unscheduled maintenance exceeds \$10,800, California American Water will be entitled to be compensated by CSA No. 7 for any and all excess unscheduled maintenance costs it incurs in accordance with the provisions set forth below for Additional Services. (ii) a Service Fee of \$211,400 for the second year, provided, however that if the total annual costs related to unscheduled maintenance exceeds \$11,800, California American Water will be entitled to be compensated by CSA No. 7 for all excess unscheduled maintenance costs it incurs in accordance with the provisions set forth below for Additional Services. For the purposes of this proposal, unscheduled maintenance is defined as emergency or unscheduled repairs on the Boulder Creek Sewer System's collection and treatment facilities.

*Excluded Costs.* California American Water's project pricing excludes the following costs associated with the operations of the Boulder Creek Sewer System (Excluded Costs): (i) power; (ii) chemicals; (iii) water testing; (iv) sludge hauling; and (v) permit fees for the MBPCD; CSCHD; and the RWQCB. Under California American Water's proposal, CSA No. 7 will be responsible for payment of the Excluded Costs items listed above.

*Compensation for Additional Services.* In addition the Service Fee, California American Water proposes that CSA No. 7 compensate California American Water for providing any additional services that have not been identified in the Scope of Work set forth in Section IV of the RFP and that are requested and authorized by CSA No. 7 (Additional Services). California American Water proposes that CSA No. 7 compensate California American Water for Additional Services on the basis of California American Water actual cost of service (Cost of Service), plus an administrative charge equal to 15% of the Cost of Service

#### **5. Proposal Conditions**

California American Water's proposal to provide O&M services to CSA No. 7's Boulder Creek Sewer System set forth herein is subject to the following conditions:

1. Satisfactory completion by California American Water of its operational and other business due diligence investigation of the Boulder Creek Sewer System.

2. Prior to California American Water assuming operational control of the Boulder Creek Sewer System, successful implementation of a corrective action plan that includes at a minimum the following capital improvements to the Boulder Creek Sewer System. (a) rehabilitation of effluent filter; (b) purchase of replacement pumps for pump stations; (c) repair of all leaks and rehabilitation of the effluent force main; and (d) purchase and installation of redundant interactive alarms to provide remote control of the pumps at the five pumping stations.
  
3. Negotiation and execution of a services agreement mutually agreed to by the parties and that contains provisions whereby CSA No. 7 will indemnify and holds harmless California American Water from and against any liabilities, claims, damages, losses, expenses, interest, awards, judgments, fines and penalties (including reasonable legal fees and costs), collectively "Damages," suffered or incurred by California American Water in connection with performing the scope of work set forth with or relating to or arising out of the Boulder Creek Sewer System or its operations, specifically including but not limited to any costs or expenses related to the removal, disposal, clean-up or remediation of any hazardous waste or substance discovered by California American Water or any other person or entity, except to the extent such Damages are caused by or contributed to by the negligence or willful misconduct of California American Water. Specifically, CSA No. 7 will indemnify and hold harmless California American Water for any RWQCB permit violations related to the Boulder Creek Sewer System's effluent forced main.

**APPENDIX A**

## CALIFORNIA AMERICAN WATER

### OPERATING DIVISIONS

CAW operates water and wastewater systems in seven counties, from Sacramento to San Diego. CAW's operations are organized into three divisions: Northern, Coastal and Southern. A brief description of each operating division is provided below.

(a) Northern Division

*Sacramento County*

Customers Served: 55,000 connections / 165,000 population

Communities Served: Antelope, Arden, Citrus Heights, Countryside, Dutch Haven, Grand Oaks, Highland Estates, Isleton, Larchmont, Riviera, Lincoln Village, Morgan Creek, Parkway, Rancho Cordova, Rosemont, Royal Oaks, Sabre City, Security Park and Walnut Grove

*Larkfield (Sonoma County)*

Customers Served: 2,500 connections / 7,500 population

Communities Served: Larkfield, Fulton and Wikiup

(b) Coastal Division

*Monterey County*

Customers Served: 40,000 connections (1,500 wastewater) / 120,000 population

Communities Served: the entire Monterey Peninsula (including Monterey, Carmel, Pacific Grove, Seaside, Sand City and Del Rey Oaks), Las Palmas, Laguna Seca, and Chualar

*Felton (Santa Cruz County)*

Customers Served: 1,350 connections / 4,400 population

Community Served: Felton

*East Palo Alto (San Mateo County)*

Customers Served: 4,000 / 29,000 population

Communities Served: East Palo Alto

(c) Southern Division

*Los Angeles County*

Customers Served: 28,000 connections / 84,000 population

Communities Served: This operations serves the San Marino, Duarte and Baldwin Hills districts. Communities served in the San Marino District: San Marino, Rosemead and parts of Temple City, El Monte, Pasadena and unincorporated areas of Los Angeles County. Communities served in the Duarte district. Duarte, Bradbury and parts of Azusa, Irwindale, Monrovia and unincorporated areas of Los Angeles County. Communities served in the Baldwin Hills district: Ladera Heights, Windsor Hills, View Park and unincorporated areas of Los Angeles County.

*Ventura County*

Customers Served: 20,000 connections / 60,000 population

Communities Served: Newbury Park and parts of Camarillo and Thousand Oaks

*San Diego County*

Customers Served: 22,500 connections / 97,000 population

Communities Served: Coronado, Descanso, Imperial Beach and parts of Chula Vista and San Diego

## APPENDIX B



**Steven Leonard**  
Vice President/General Manager  
California American Water

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**PROFESSIONAL OVERVIEW**

Profession: Water Utility Manager  
Position in Firm. Vice President/Manager

**EDUCATION**

M.A. Biology, Humboldt State University, Arcata, CA  
B.A. Zoology, University of California, Santa Barbara  
Certificate, Water and Wastewater Leadership Center, University of North Carolina

**PROFESSIONAL HISTORY**

Present Vice President/Manager California American Water, Monterey Coastal Division  
2001-2002 San Francisco Public Utilities Commission-Acting General Manager  
1992-2001 San Francisco Water Department – Program Manager-Water Treatment  
1986-1992 San Francisco Water Department – Water Quality Manager  
1982-1985 San Francisco Water Department – Water and Wastewater Laboratory Manager  
1972-1982 San Francisco Water Department-Sr. Microbiologist

**EXPERIENCE**

During Mr. Leonard's 30-year tenure with the San Francisco Public Utilities Commission, he served in a variety of technical, management and administrative positions, starting as a watershed biologist and ending as the General Manager of the SFPUC. Along the way, he served as the Manager of Water Quality and Suburban Operations where he managed water production and transmission to San Francisco's 30 suburban water systems, planned major capital expansions and improvements, including major water treatment plants and chloramines conversion; and led the utility's negotiations with state and federal regulatory agencies.

Current responsibility is the overall management of the water and wastewater operations of the Monterey Coastal Division of Cal-am Water which serving over a hundred thousand people the six cities and surrounding areas of the Monterey Peninsula, and the communities of Felton, Montara and East Palo Alto.

**PROFESSIONAL AFFILIATIONS**

American Water Works Association  
Association of California Water Agencies

**PROFESSIONAL CERTIFICATIONS**

California Wastewater Treatment Operator, Grade IV  
California Water Treatment Plant Operator, Grade 5

**Thomas Peterson**  
Operations Superintendent  
California American Water

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**PROFESSIONAL OVERVIEW**

Profession: Water Utility Management  
Position in Firm Operations Superintendent

**EDUCATION**

Masters of Public Administration – Golden Gate University, San Francisco, California

Bachelors of Science – Management – University of Phoenix, San Jose, California

**PROFESSIONAL HISTORY**

Present Operations Superintendent, California-American Water Company,  
Monterey Division, Monterey, California  
1995-2001 Operations Supervisor, Santa Cruz County Public Works Department,  
Santa Cruz, California  
1983-1995 Treatment Plant Operator, City of Willits  
Willits, California  
1981-1983 Operations Manager, Little Lake Water Company  
Willits, California

**KEY EXPERIENCE**

Peterson began his career with the Little Lake Water Co. in Willits, California. This 2.2-mgd surface water treatment plant was purchased by the City of Willits, which cross-trained him in wastewater treatment. While under his direction, Willits Wastewater Facility was named "Small System Showcase Plant" by the California Energy Commission. The U.S. Department of Energy spotlighted Willits Wastewater Facility as an "Energy Showcase Demonstration Site" for small systems in 1995.

Peterson then moved to the Santa Cruz County Public Works Department, where he; oversaw the operation of nine water and wastewater systems, established a supportive analytical laboratory, developed operator training programs and introduced programmable process control strategies to the sanitation division. He is proficient in the application and maintenance of process instrumentation and control systems, water and wastewater operations and maintenance, and the principles of energy economization in hydraulic pumping applications.

Member. American Water Works Association  
Water Environment Federation  
Instrument Society of America

**PROFESSIONAL CERTIFICATIONS**

|   |           |
|---|-----------|
| California Wastewater Plant Operator          | Grade V   |
| California Water Plant Operator               | Grade T4  |
| California Water Distribution System Operator | Grade D5  |
| CWEA Electrical/Instrumentation Technologist  | Grade IV  |
| CWEA Mechanical Technologist                  | Grade III |
| CWEA Collection System Technologist           | Grade III |
| CWEA Laboratory Analyst                       | Grade II  |

**Edward Waggoner**  
Operations Supervisor  
California American Water

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**PROFESSIONAL OVERVIEW**

Profession                      Water Utility Management  
Position in Firm:              Operations Supervisor

**EDUCATION**

Associate of Arts, General Education—Golden West College, Fountain Valley, California

Associate of Arts, Water & Wastewater Technology—Orange Coast College, Costa Mesa, California  
Certificate of Completion, Wastewater Technology

Associate of Science, Hazardous Material (Pending) – Hartnell College, Salinas, California (Pending)  
Associate of Science, Water & Wastewater Management (Pending)

**PROFESSIONAL HISTORY**

2002-Present                      Operations Supervisor, California American Water-Monterey Division  
Monterey, California  
1984-Present                      Part-Time Instructor (Water and Wastewater Courses), Hartnell College  
Salinas, California  
1981-2002                          Wastewater Facilities Director, Carmel Valley Ranch Resort  
Carmel, California  
1979-1980                          Treatment Plant Operator, Monterey Regional Water Pollution Control Agency  
Monterey, California  
1977-1979                          Treatment Plant Operator, City of Corona  
Corona, California

**KEY EXPERIENCE**

Waggoner began his career with the City of Corona as an operator for the City's 5.0 MGD wastewater treatment plant (activated sludge). In 1979, Waggoner moved to the Monterey Peninsula and took a position with the Monterey Regional Water Pollution Control Agency as a senior plant operator. In 1981, Waggoner became the Wastewater Facilities Director for the wastewater treatment plant and collection system at Carmel Valley Ranch Resort. His responsibilities included management and operation of the Resort's wastewater facilities, including 0.1 treatment plant. Waggoner worked for at the Resort for over 20 years until the wastewater facilities were sold to California American Water in 2002. Waggoner accepted a position with California American Water in 2001, when the company took over the operations of the resort facilities. Waggoner is also a part-time instructor at Hartnell College, where he has been teaching water and wastewater courses since 1984.

Member:                          American Water Works Association  
Water Environment Federation  
Select Society of Sanitary Sludge Shovelers

**PROFESSIONAL CERTIFICATIONS**

California Wastewater Plant Operator                      Grade V  
California Water Plant Operator                              Grade T3  
California Water Distribution System Operator              Grade D2