

# FREITAS FREITAS

ENGINEERING AND PLANNING CONSULTANTS, INC.

April 25, 2007

07000

Ms. Rachél Lather  
Santa Cruz County Sanitation District  
701 Ocean Street, Room 410  
Santa Cruz, CA 95060

Subject: Statement of Qualifications  
Boulder Creek Sewage Treatment Plant Upgrade  
Davenport, California

Dear Rachél:

As requested in your April 18, 2007 Request for Statement of Qualifications for Boulder Creek Sewage Treatment Plant Upgrade Consulting Services letter, this booklet is our engineering services Statement of Qualifications to provide engineering services for the wastewater treatment plant upgrade and associated work. As shown in the statement we have plentiful experience with wastewater treatment plants and dealings with the California Regional Water Quality Control Board.

Formed in 1985, incorporated in 2003, **Freitas Plus Freitas, Engineering and Planning Consultants, Inc.** offers engineering and planning services to the Central California coastal area. **Freitas Plus Freitas** is a family owned corporate business. The owners of the business are Michael J. Freitas, Civil Engineer and Melanie Shaffer Freitas, Urban Planner. The business office is located as shown below:

**Freitas Plus Freitas**  
**Engineering and Planning Consultants, Inc.**  
9011 Soquel Drive, Suite C  
Aptos, California 96003  
831-688-1168 fax 831-688-1218  
email - [fr8tus@aol.com](mailto:fr8tus@aol.com)

The firm has worked for a number of California cities and counties including the Cities of Hollister, Morgan Hill, Watsonville, Capitola, Union City, King, Soledad, Greenfield and Thousand Oaks; Counties of San Benito, Santa Clara and Santa Cruz; Scotts Valley Water District, Soquel Creek Water District; Central Water District and the University of California, Santa Cruz.

As detailed in our enclosed **Statement of Qualifications** we have designed and constructed many sewage and water treatment plants over the last 20 years. We have been residents of the Santa Cruz County for over 30 years and Michael J. Freitas served on the City of Santa Cruz Water Commission during the early 1980s.

Thank you for considering **Freitas + Freitas** for this important work. If you have any questions, please call me.

Sincerely,



Michael J. Freitas  
**Freitas + Freitas**  
**Engineering and Planning Consultants, Inc.**

Enclosures: **Statement of Qualifications**

**Statement of Qualifications**

**for**

**Boulder Creek Sewage Treatment Plant Upgrade  
County Service Area No. 7  
Boulder Creek, California**

**April 2007**

**Freitas Plus Freitas  
Engineering And Planning Consultants, Inc.  
9011 Soquel Drive, Suite C  
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831-688-1168  
Fax 831-688-1218**

**STATEMENT OF QUALIFICATIONS**

**1. Narrative Statement**

The purpose of this Statement of Qualifications is to demonstrate that **Freitas Plus Freitas Engineering and Planning Consultants, Inc.** of Aptos, California has the experience, knowledge, communication skills, engineering ability and available time to provide engineering work for the Boulder Creek Sewage Treatment Plant Tertiary Treatment Upgrade CSA No. 7, Boulder Creek, CA.

**2. Brief Description of Freitas Plus Freitas**

Formed in 1985, incorporated in 2003, **Freitas Plus Freitas, Engineering and Planning Consultants, Inc.** offers engineering and planning services to the Central California coastal area. **Freitas Plus Freitas** is a family owned corporate business. The owners of the business are Michael J. Freitas, Civil Engineer and Melanie Shaffer Freitas, Urban Planner. The business office is located as shown below:

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Freitas Plus Freitas maintains insurance in the amount of \$2,000,000 for Commercial General Liability (Fidelity and Guaranty Insurance Underwriters Policy # BK01497417) and in the amount of \$1,000,000 for Professional Liability (Everest National Insurance Company Policy # 48AE002093031). If requested, certificates of insurance will be supplied.

**3. Engineering Principal**

Michael J. Freitas, California Registered Civil Engineer C23345, and co-owner of Freitas Plus Freitas will be the Engineering Principal for this Statement of Qualifications. Mr. Freitas has over 30 years of experience in the civil engineering profession specializing in the design of water and wastewater projects. He is a graduate of the University of Santa Clara and a registered professional engineer. Mr. Freitas worked for eight years with Santa Clara Valley Water District, three years for PRC Consoer Townsend, Inc. and four years for Mark Thomas and Company. He has served on a consulting basis as City Engineer for the Cities of San Juan Bautista and Morgan Hill, California and for one year (1998/1999) was responsible for the daily operation of the water and wastewater systems of the City of Soledad, CA.

Mr. Freitas has extensive experience designing wastewater and water treatment plants, pump stations, water storage facilities, hydrology studies and flood control studies. He prepared the complete design of all treatment plant and pumping plants including structural, mechanical, electrical, control and telemetry required to complete the designs. His resume is included as **Appendix A**. Shown below are lists of facilities designed by Michael J. Freitas.

**WASTEWATER PROJECTS**

- \* **Wastewater Treatment Plant Expansion City of Greenfield**  
Preparing drawings and specifications for expansion of Greenfield WWTP. 2004, 2005 and 2007.
- \* **Report of Waste Discharge for Ventana Big Sur Inn, Big Sur CA**  
Prepared Report of Waste Discharge for resort on the Big Sur Coast for submittal to CRWQCB. 2000
- \* **City of Soledad Acting Water and Wastewater Director**  
Responsible for the daily operation of the water and wastewater systems of the City of Soledad, CA including preparation of monitoring reports to CRWQCB. 1998 and 1999
- \* **Installation of Grinders @ Greenfield Wastewater Treatment Plant**  
Prepared construction documents to install two electric motor driven wastewater influent grinders at the City of Greenfield Wastewater Treatment Plant. 1998
- \* **Installation of Grinders @ Six Wastewater Pump Stations, Santa Cruz County Sanitation District**  
Prepared construction documents to install two hydraulic motor driven wastewater influent grinders at each of six wastewater pumping plants for the Santa Cruz County Sanitation District. 1996
- \* **Installation of Surface Aerators, City of King**  
Prepared construction documents to install 15 - 25 horsepower floating surface aerators in two existing wastewater treatment lagoons. 1994 and 2005
- \* **Wastewater Treatment Plant Expansion, City of Greenfield**  
Prepared evaluation report, construction drawings and specifications for modifications to the existing wastewater treatment plant including addition of a 0.5 MGD clarifier, pumps, telemetry, and motor control center. 1992
- \* **FEMA Funded Sanitary Sewer Earthquake Damage Repairs, City of Watsonville, Ca.**  
Prepared construction documents for the repair of Earthquake Damages to the City of Watsonville's Sanitary Sewer Collection System. This project, which was funded by the Federal Emergency Management Agency (FEMA) resulted in a construction contract worth more than \$2,000,000 in repair to damaged pipelines in the City of Watsonville. 1991.
- \* **Replacement Disposal System for Monterey Dunes Colony, Castroville, Ca.**  
Prepared evaluation report and construction documents for replacement of the disposal system for 25 residences along the seashore of Monterey Bay including leachfields and a new pump station. 1991
- \* **Canyon Del Sol Wastewater Treatment Plant, Watsonville, Ca.**  
Prepared construction documents for expansion of the existing extended aeration wastewater treatment plant including treatment units, aeration blowers and disposal field for 0.5 MGD plant. 1989
- \* **Sewage Pump Station #4, CSA #7 Boulder Creek, California**  
Prepared plans and specifications for replacement of sewage pump station serving 22 residences. 1988
- \* **Sanitary Sewer System Rehabilitation, Phase 2, City of Morgan Hill, California**  
Prepared continuation program for the rehabilitation of the existing sanitary sewer system to correct inflow and infiltration problems for the City of Morgan Hill. Program consisted of cleaning, televising, joint testing, and joint sealing of the existing pipes and preparation of a status report for work accomplished on the program. 1988
- \* **Septage Receiving Facility, Santa Cruz County, California**  
Reviewed septage receiving facility plans and revenue plan for construction of a septage treatment facility at the City of Santa Cruz Wastewater Treatment Plant. This project involved close cooperation with both the City's engineering consultant and the environmental health staff of Santa Cruz County. 1987

**\* Sand Dollar Beach Wastewater Treatment Plant, Aptos, California**

Prepared construction drawings and specifications for modifications to the existing wastewater treatment plant including addition of an equalization basin, flowmeter, aeration blowers, pumps, telemetry, and motor control center. 1987

**\* Sanitary Sewer System Rehabilitation, Downtown Area, Morgan Hill, California**

Prepared inflow/infiltration reduction plan which included contracts to clean, televise, pressure test joints, pressure grout joints, and seal manholes in Morgan Hill. Plan was prepared in response to the requirements of the regional water quality control board to reduce extraneous flows to the wastewater treatment plant. 1984

**\* Chambers Creek Wastewater Treatment Plant, Pierce County, Washington**

Under project engineers guidance, prepared plans, specifications, general inspection, operations and maintenance manual, plan of operations, and revenue program for the 20 MGD secondary wastewater treatment plant. 1981

**\* Project Inspector - 1979 Annual Inspection of Water and Sewerage Facilities, Commonwealth of Puerto Rico**

Member of inspection team which inspected over 100 water and wastewater treatment facilities on the island of Puerto Rico. Facilities varied from a 40 MGD activated sludge wastewater treatment plant to a 10 gpm well. The purpose of the inspection was to evaluate facilities for operations and maintenance improvements.

**\* Morgan Hill/Gilroy Wastewater Treatment Plant, Gilroy, California**

Prepared plans, specifications, general inspection, operations and maintenance manual, plan of operations, and revenue program for the 6.1 MGD primary wastewater treatment plant. 1979

**WATER TREATMENT PLANTS AND FACILITIES**

**\*Fluoridation Systems for City of Watsonville Water System, Watsonville, CA**

Prepared complete plans and specifications to equipping 10 wells and a water treatment with facilities to inject fluoride solution into the water system of the City of Watsonville. 2002

**\*DOHS Small Water System Permit Applications**

Prepared application package including engineering analysis for the following small water systems:

- Sempervirens Outdoor School, Big Basin CA
- Golden Heights Mutual Water Co., Gilroy, CA
- Rolling Woods Mutual Water Co, Santa Cruz, CA
- Hidden Falls Girl Scout Camp, Soquel CA
- Meadowridge Mutual Water Co., Aptos, CA
- Villa Del Monte Mutual Water Co., Los Gatos, CA

**\*Water Treatment Plants for Using Well Water**

Designed water treatment systems using high iron/manganese/hydrogen sulfide well water including:

- Sanborn Park Well for Santa Clara County Parks. (chlorination with greensand filtration). 2002
- Walden West Well for Santa Clara County Parks. (chlorination with greensand filtration). 2002
- Mills/Lynn Residence on Backranch Road, Davenport, CA. (chlor/greensand filtration). 1993
- McKinnon Residence, Mockingbird Lane, Aptos, CA. (chlorination /greensand filtration). 1995
- McKinney Residence, Laureston Road near Alpine Road, Portola Valley, San Mateo County. (Filtronics system chlorination with sulfur dioxide regeneration of filtration system). 2000

**\*Water Treatment Plant for Lake Canyon Mutual Water Company, Los Gatos, CA**

Prepared electrical and control system construction plans and specifications for a 20 gpm water treatment plant using MEMCOR membrane filtration unit to provide potable water for the water system. 1998

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**Freitas Plus Freitas Engineering & Planning Consultants, Inc.**

- \*Water Treatment Plant for Ventana Big Sur Inn, Big Sur, CA  
Prepared construction plans and specifications for a the modification of 50 gpm pressure filter water treatment plant to provide potable water for the facility in compliance with the new EPA Surface Water Treatment Rules. 1995
- \*Water Treatment Plant for Portola State Park, San Mateo County, CA  
Prepared construction plans and specifications for a 20 gpm water treatment plant using MEMCOR membrane filtration unit to provide potable water for the Park. 1995
- \*Water Treatment Plant for Lompico County Water District, Felton, CA  
Prepared construction plans and specifications for a 50 gpm water treatment plant using MEMCOR membrane filtration unit to provide potable water for the District. 1994
- \*Water Treatment Plant for Stonegate Project, Tres Pinos, CA  
Prepared construction plans and specifications for a 40 gpm conventional gravity filter water treatment plant to provide potable water for a 76 unit subdivision. 1989

**PUMP STATIONS**

<b>Facility</b>	<b>Type</b>	<b>Capacity</b>	<b>Owner</b>	<b>Year</b>
Vista Montaña Well Pump Station	Water	1,500 gpm	City of Watsonville	2004
Lift Station G	Sewage	500 gpm	City of Morgan Hill	2004
Hushbeck/Atri Pump Station	Drainage	100 cfs	City of Watsonville	2003
Jackson Oaks Booster Pump	Water	900 gpm	City of Morgan Hill	2003
Jackson Oaks Fire Pump	Fire	1500 gpm	City of Morgan Hill	2003
Bay Breeze	Sewage	300 gpm	City of Watsonville	2002
Lift Station B	Sewage	300 gpm	City of Morgan Hill	2002
Peebles Ave. Pump Station	Sewage	350 gpm	City of Morgan Hill	2000
Tan Pump Station	Water/Fire	1500 gpm	SCWD	1998
Well #1	Water	1500 gpm	City of Watsonville	1998
Polo Grounds Well	Water	200 gpm	Santa Cruz Parks	1997
Well #5	Water	1500 gpm	City of Watsonville	1997
Byron School	Water	150 gpm	Byron School District	1996
Soledad Pump Station	Water	2000 gpm	City of Soledad	1996
Well #10	Water	1500 gpm	City of Watsonville	1996
Coyote Park	Water	150 gpm	Santa Clara Co. Parks	1995
Montevina Pipeline Stations (5)	Water	320 gpm	Redwood Mutual Water	1994
Dolphin Drive P.S.	Sewage	750 gpm	Santa Cruz C. Sanitation	1993
Cornwell PS	Water	150 gpm	SCWD	1993
Upper Monte Toyon	Water	150 gpm	SCWD	1993
Lower Monte Toyon	Water	500 gpm	SCWD	1993
UCSC	Water	500 gpm	UCSC	1992
Monterey Dunes Colony	Water	750 gpm	MDCMWA	1992
Peak/Main P.S.	Water	500 gpm	Morgan Hill	1992
Valencia P.S.	Water	200 gpm	CWD	1991
Palo Alto Park	Water	600 gpm	PAPMWC	1991
E. Dunne Booster	Water	2000 gpm	Morgan Hill	1991
Well #3	Water	1250 gpm	Greenfield	1991
Hall School	Sewage	100 gpm	Pajaro School .D.	1991
Mt. Hermon	Water	100 gpm	Mt. Hermon Ass.	1990
Cassilla Avenue	Sewage	1500 gpm	Freedom San. District	1989
Ben Lomond	Water	2500 gpm	Santa Cruz Co.	1989
Diablo Hills	Water	300 gpm	San Benito Co.	1989
Llagas Booster Pump	Water	300 gpm	Morgan Hill	1988
Spring Lakes Well	Water	300 gpm	Spring Lakes	1988
Buena Vista Well & Fire	Fire	1500 gpm	Santa Cruz Co.	1988

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**Freitas Plus Freitas Engineering & Planning Consultants, Inc.**

<u>Facility</u>	<u>Type</u>	<u>Capacity</u>	<u>Owner</u>	<u>Year</u>
Country Club Estates	Water	500 gpm	Gilroy	1988
Boulder Creek CSA #7	Sanitary	100 gpm	Santa Cruz	1987
Greenfield	Water	1500 gpm	Greenfield	1987
Monterey Booster Pump	Water	2000 gpm	Morgan Hill	1987
Well #11	Water	600 gpm	SVWD	1986
Hidden Oaks Well	Water	250 gpm	SVWD	1985
Southwood Pump Station	Water	250 gpm	SVWD	1985
Monterey Presidio	Water	500 gpm	US Army	1984
Milpitas BusinessPark	Drainage	90,000 gpm	Milpitas	1984
Nortech Pump Station	Sanitary	2.2 MGD	San Jose	1984
Gunderson Devore Pump	Water	250 gpm	CWD	1982
Boys Ranch Well #1	Water	1100 gpm	Morgan Hill	1982
Boys Ranch Well #2	Water	400 gpm	Morgan Hill	1982
Northside Pump Station	Sanitary	40 MGD	Santa Clara	1979
Morgan Hill/Gilroy WWTP	Sanitary	17 MGD	Morgan Hill/Gilroy	1979

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1. SCWD: Soquel Creek Water District
  2. UCSC: University of California, Santa Cruz
  3. MDCMWA: Monterey Dunes Colony Mutual Water Association
  4. CWD: Central Water District
  5. PAPMWC: Palo Alto Park Mutual Water Company
  6. SVWD: Scotts Valley Water District
  7. WWTP: Wastewater Treatment Plant
  8. SCVWD: Santa Clara Valley Water District

**WATER STORAGE TANKS**

<u>Facility</u>	<u>Type</u>	<u>Capacity</u>	<u>Owner</u>	<u>Year</u>
Muriel Wright Girls Ranch	Steel	0.15 MG	Santa Clara Co.	2006
Sanborn Park	Bolted	0.10 MG	Santa Clara Co. Parks	2002
The Alpine Project	Steel	0.08 MG	Donald McKinney	2000
The Alpine Project	Steel	0.08 MG	Donald McKinney	2000
Evergreen Nursery	Bolted	0.05 MG	Evergreen Nursery	1999
Stevens Creek Park	Steel	0.05 MG	Santa Clara Co. Parks	1997
Lompico Clearwell	Bolted	0.05 MG	Lompico CWD	1996
Coyote Park	Steel	0.05 MG	Santa Clara Co. Parks	1995
Cornwell	Steel	0.50 MG	SCWD	1993
Monte Toyon	Steel	0.25 MG	SCWD	1993
UCSC	Steel	1.00 MG	UCSC	1992
Monterey Dunes Colony	Bolted	0.21 MG	MDCMWA	1991
Palo Alto Park	Steel	0.35 MG	PAPMWC	1991
Madrone Tanks (2)	Redwood	0.06 MG	Lompico CWD	1991
Kaski Tank	Redwood	0.06 MG	Lompico CWD	1991
Ben Lomond	Steel	0.20 MG	Santa Cruz Co.	1989
Diablo Hills (2)	Steel	0.15 MG	San Benito Co.	1989
Greenfield	Steel	1.00 MG	Greenfield	1987
Southwood Tank	Steel	0.01 MG	SVWD	1985
Monterey Presidio	Steel	0.40 MG	US Army	1984
Widera Tank	Steel	0.25 MG	CWD	1982
Gunderson Tank	Steel	0.50 MG	CWD	1982
Mendocino College	Steel	0.50 MG	Mendocino College	1982

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1. SCWD: Soquel Creek Water District
  2. UCSC: University of California, Santa Cruz
  3. MDCMWA: Monterey Dunes Colony Mutual Water Association
  4. PAPMWC: Palo Alto Park Mutual Water Company
  5. SVWD: Scotts Valley Water District
  6. CWD: Central Water District

**4. Fee Schedule**

Freitas Plus Freitas' fee schedule is included as **Appendix B**. Payment shall be in accordance with this Fee Schedule.

**5. List of Client References**

The following are clients for which Freitas Plus Freitas has recently worked for. The project team has worked together for many of these clients. Please feel free to call any of them to ask about our performance.

Tom Bolich  
Santa Cruz County  
Public Works Department  
701 Ocean Street  
Santa Cruz, California 95060  
831-454-2160

Michael Ranker  
City Engineer  
City of Greenfield  
820 Park Row, #592  
Salinas, Ca. 93901  
831-455-2344

Gayland Swain  
City of Watsonville  
Public Works Department  
250 Main Street  
Watsonville, California 95077  
831-728-6093

Katherine Loudd  
Palo Alto Park  
Mutual Water Company  
2190 Addison Avenue  
East Palo Alto CA 94303  
650-322-6093

Clarke Wales  
Central Water District  
400 Cox Road  
Aptos, California  
831-688-2767

David Gittleson  
City of Morgan Hill  
100 Edes Court  
Morgan Hill, CA 95037  
408-776-7337

Jeff Gailey  
Soquel Creek Water District  
P.O. Box 158  
Soquel, California 95073  
831-475-8500

William Farrell  
City of Soledad  
P.O. Box 156  
Soledad, CA 93960  
831-678-3963

**6. Contract Terms**

This document complies with Section 6749 of the State of California Business and Professions Code.

Either party may terminate this agreement upon written notification.

If terminated by either party, Freitas Plus Freitas shall be paid all expenses incurred under this agreement as of the receipt of the written termination letter.



**APPENDIX A  
Resume of**

**MICHAEL J. FREITAS**

**Freitas Plus Freitas  
Engineering And Planning Consultants, Inc**  
9011 Soquel Drive, Suite C  
Aptos, California 96003  
831-688-1168 fax 831-688-1218  
email - [fr8tus@aol.com](mailto:fr8tus@aol.com)

**EDUCATION:**

Bachelor of Science, Civil Engineering  
Santa Clara University  
June, 1970

**REGISTRATION:**

Professional Engineer  
State of California  
P.E. No. C23345

**EXPERIENCE:**

Freitas Plus Freitas, Santa Cruz, Owner, 1985 to Present  
Mark Thomas & Company, San Jose, Engineer, 1981 to 1985  
Consoer, Townsend & Associates, San Jose, Engineer, 1978 to 1981  
Santa Clara Valley Water District, San Jose, Engineer, 1970 to 1978

**PRINCIPAL AREAS OF EXPERTISE:**

Water Treatment and Supply  
Pumping Plant Design  
Wastewater Treatment  
Flood Control and Hydrology

**AFFILIATIONS:**

American Society of Civil Engineers (ASCE)  
American Water Works Association (AWWA)  
Water Environment Federation (WEF)  
Former Chairman and Member, City of Santa Cruz Water Commission  
National Fire Protection Association (NFPA)

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**Freitas Plus Freitas Engineering & Planning Consultants, Inc.**  
**Schedule of Charges**

**APPENDIX B**  
**SCHEDULE OF CHARGES**  
**JANUARY 2007**

**PERSONNEL CHARGES**

Principal Engineer	\$187.50/hr
Principal Planner	\$187.50/hr
Planner	\$150.00/hr
Engineer	\$150.00/hr
Drafting	\$ 80.00/hr
Word Processing	\$ 50.00/hr

Travel Time - In accordance with the above schedule, to a maximum of eight hours per day.

Court Appearances as an expert witness will be charged at a rate of \$1,600.00 per day (minimum half-day charge of \$800.00). Preparation time for court cases and depositions will be charged at regular hourly rates.

**REIMBURSABLE DIRECT CHARGES**

Auto or Pickup Truck, per mile \$ 0.42

Charges for special outside services, equipment, and facilities not furnished directly by Freitas Plus Freitas will be billed at cost plus 10 percent. Such charges may include, but are not limited to, the following services:

1. Printing and Reproduction
2. Publication expenses
3. Subcontractors
4. Rental and operation of equipment
5. Special permits, fees, etc.
6. Travel expenses
7. Meals and lodging (\$ 40.00 per Diem Plus lodging costs)
8. Shipping costs

**INSURANCE**

We maintain insurance in the amount of \$2,000,000 for Commercial General Liability (Fidelity and Guaranty Insurance Underwriters Policy # BK01497417) and in the amount of \$1,000,000 for Professional Liability (Everest National Insurance Company Policy # 48AE002093031). Special insurance, licensing, or permit requirements beyond this are billed in addition to contract amount.

**PAYMENT**

Fees will be billed monthly for the preceding month, and will be payable within 30 days of the date of the invoice. A late fee of 1-1/2% per month will be charged for payment not made within 30 days.

**CONTRACT TERMS**

This document complies with Section 6749 of the State of California Business and Professions Code.

Either party may terminate this agreement upon written notification. If terminated by either party, **Freitas Plus Freitas** shall be paid all expenses incurred under this agreement as of the receipt of the written termination letter.

This schedule of charges will be updated annually on January 1.

**Federal Employee Identification Number (EIN)**

**Freitas Plus Freitas** is a California corporation. Our EIN is 32-0083226