

Notice and Agenda of a Meeting of the Beaumont Basin Watermaster

Wednesday, April 25, 2012 at 9:00 a.m.

Meeting Location:

Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223
(951) 845-9581

Watermaster Members:

City of Banning
City of Beaumont
Beaumont Cherry Valley Water District
South Mesa Water Company
Yucaipa Valley Water District

I. Call to Order

II. Roll Call

City of Banning: Duane Burk (Alternate: Arturo Vela)

City of Beaumont: Dave Dillon (Alternate: Kyle Warsinski)

Beaumont Cherry Valley Water District: Eric Fraser (Alternate: Tony Lara)

South Mesa Water Company: George Jorritsma (Alternate: Dave Armstrong)

Yucaipa Valley Water District: Joseph Zoba (Alternate: Jack Nelson)

III. Pledge of Allegiance

IV. Public Comments At this time, members of the public may address the Beaumont Basin Watermaster on matters within its jurisdiction; however, no action or discussion may take place on any item not on the agenda. To provide comments on specific agenda items, please complete a Request to Speak form and provide that form to the Secretary prior to the commencement of the meeting.

V. Discussion Items

A. Interviews for Professional Engineering Services and Legal Services
Recommendation: None

VI. Watermaster Member Comments

VII. Adjournment

DISCUSSION ITEMS

BEAUMONT BASIN WATERMASTER MEETING MEMORANDUM NO. 12-03

Date: April 25, 2012

From: Joseph Zoba, Treasurer

Subject: Interviews for Professional Engineering Services and Legal Services

Recommendation: None

The Beaumont Basin Watermaster released two Requests for Proposals (RFP) in March 2012. One RFP was for professional legal services and the other RFP was for professional engineering services. The Requests for Proposals were distributed by Watermaster members, posted to the Watermaster website and to the California Special Districts Association website.

The Watermaster received the following proposals:

| Professional Legal Services | Professional Engineering Services |
|---|--|
| Alvarado Smith, APC Burke, Williams & Sorenson, LLP Cota Cole, LLP Graves & King, LLP Kidman Law, LLP | Alda Inc. Geoscience Support Services, Inc. Hazen and Sawyer, P.C. |

The purpose of this agenda item is for the Watermaster to conduct interviews of the prospective firms.

Proposal for Professional Legal Services

Alvarado Smith, APC



ALVARADO SMITH
A PROFESSIONAL CORPORATION

**Statement of Attorney Qualifications and
Official Response**

To

**Request for Proposals to Provide
Professional Legal Services for the
Beaumont Basin Watermaster**

April 13, 2012

Submitted to:

**Eric Fraser
General Manager
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223**



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Suite 200
Santa Ana, California 92707
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www.AlvaradoSmith.com

A PROFESSIONAL CORPORATION
INCLUDING PROFESSIONAL CORPORATIONS

Los Angeles
213.229.2400

San Francisco
415.624.8665

April 13, 2012

VIA OVERNITE EXPRESS

Eric Fraser, General Manager
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Re: Request for Proposal to Provide Professional Legal Services for
the Beaumont Basin Watermaster

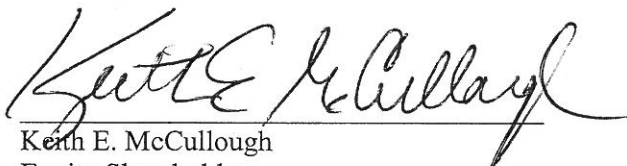
Dear Mr. Fraser:

AlvaradoSmith, APC ("AS") is pleased to respond to the April 16, 2012 Request for Proposal ("RFP") to Provide Professional Legal Services for the Beaumont Basin Watermaster. AS is qualified to provide, and desires to provide, legal services Beaumont Basin Watermaster, on the issues addressed by the Request for Proposals. Should AS be selected as counsel to assist Beaumont Basin Watermaster in these projects, AS agrees to enter into a formal contract with Beaumont Basin Watermaster in that regard.

We request that you consider the enclosed Proposal for the services outlined in the RFP. We anticipate that the services rendered on Beaumont Basin Watermaster's behalf will be performed by attorneys, paralegals and staff based in our Orange County office. Travel to and from Beaumont for meetings and hearings conducted in the ordinary course of performing necessary services will not be billed to Beaumont Basin Watermaster. AS has never been terminated from a services contract with any public entity.

Keith E. McCullough is an Equity Shareholder of AS and is authorized to represent AS in order to enter into negotiations with Beaumont Basin Watermaster with respect to the RFP and any subsequently awarded contract. You may contact him at the address and telephone number listed above. On behalf of AS, we thank you for this opportunity to submit this proposal. This proposal consists of 13 pages and an Appendix of attorney resumes.

Sincerely yours,
ALVARADOSMITH, APC



Keith E. McCullough
Equity Shareholder

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1. General Overview of AlvaradoSmith

AlvaradoSmith ("AS" or the "Firm") is a Professional Corporation with offices in Orange County, Los Angeles and San Francisco. The Firm is the largest minority owned law firm in California, and has a diverse, full-service practice. We represent a wide variety of multinational corporations, publicly and privately held companies, public agencies, partnerships and emerging businesses. The expertise and resources of our entire Firm allow us to provide exceptional service for our clients, on a local and international level.

AS was founded in 1993 with 5 attorneys and over the ensuing decade grew to a firm of 25 attorneys. By 2004, AS had merged with Adorno & Yoss, creating the largest minority owned law firm in the United States with approximately 300 Attorneys. In October 2010 AlvaradoSmith disassociated itself with the Adorno firm in order to focus more intently on its California-based clients and to concurrently open its San Francisco office. Now with nearly 60 attorneys in its 3 offices, AlvaradoSmith practices within the following practice groups:

- Real Property, Environmental & Natural Resources Advice & Litigation
- Public Law and Municipal Governance
- Business, Commercial and Complex Litigation
- Financial Institution Litigation
- Real Estate & Land Use Transactions
- Business & Corporate Transactions
- Employment Counseling & Litigation
- Probate, Trusts and Estates
- International Law Practice – Latin America and Asia
- Intellectual Property
- Insurance Coverage & Professional Liability Defense
- Construction Law

The Firm carefully screens its attorneys and monitors their work product for quality. The Firm provides regular feedback to its associates and encourages attendance at seminars and educational programs. AS attorneys meet no less than monthly to discuss Firm administration and technology issues, work assignments, and for instruction on recent changes in our areas of practice.

AS is committed to providing the Beaumont Basin Watermaster with high quality, comprehensive and creative legal services in an efficient and cost-effective manner. AS looks forward to working with Watermaster to administer the Basin consistent with the adjudication judgment and the adopted Rules and Regulations.

AS attorneys possess superior academic qualifications, and have substantial experience in representing public-sector clients in a wide range of legal areas and services. Academically, AS attorneys have been educated at several of the nation's most exclusive and premier law schools, and many have served in judicial, presidential and legislative positions. AS has sufficient in-depth basis of expertise and is capable of handling the services requested under the Request for Proposals.

2. Prior Experience in Groundwater Basins Throughout California

Shareholders Keith McCullough and Thierry Montoya have extensive prior experience in representing interests in several groundwater basins throughout California:

- Mojave Groundwater Basin:
 - Water rights litigation and enforcement of rights on behalf of foreclosing entities. Successfully fending off claims from overlying users as to the supremacy of their adjudicated rights following the foreclosure of surface rights. Such claims defeated before the Mojave Water Agency (Watermaster) and state courts.
- Bunker Hill Basin:
 - Representation of the City of San Bernardino in disputes with the City of Riverside concerning overdraft conditions and the impact of the RIX facilities on the City of Riverside's Rialto well fields. Successfully defeated attempts to add additional wells into the challenged Bunker Hill Basin, and stopped attempts to increase RIX percolation ponds.
 - Representation of the City of San Bernardino in its dealings with the EPA regarding the Newmark Plume, including the preparation of groundwater banking and wheeling agreements to neighboring cities and water purveyors to allow them to draw from the City's basin without obtaining water rights.
 - Representation of water banking operations in defeat of tort claims arising out of an increased water table.
- Kings, Kaweah and Tulare Lake Basins (DWR Bulletin 118-80):
 - Represented interests subject to conjunctive use and groundwater banking limitations in relation to surface water appropriation restrictions stemming from a 1928 agreement between 28 member entities consisting of public agencies and mutual water companies.
 - Adjudicated water rights and defeated attempts to establish a new well field in close proximity to existing well fields.
- Chino Basin:
 - Rendered water rights opinions concerning changed ownership and dormant rights of defendant parties to the Chino Basin groundwater adjudication which were then subject to Watermaster rules and regulations.
- San Juan Basin:
 - Development of geologic and hydrologic characteristics of historic coastal groundwater basin in opposition to SWRCB staff position of stream underflow.
- Central Basin:
 - Assisted in the successful efforts to stop unsolicited water banking efforts within the Central Basin as attempted by the Water Replenishment District.
- Sacramento Basin:
 - Rendered water rights opinions addressing changed ownership and historic pumping and conjunctive use practices.

AS' water, natural resources and land use expertise includes a preeminent list of both private and public clients. Our attorneys have represented such public agency clients as the Metropolitan Water District of Southern California, City of San Bernardino Municipal Water Department, West Valley Water District, Laguna Irrigation District, Castaic Lake Water Agency, the Community Redevelopment Agencies or Community Development Commissions for the Cities of Los Angeles, Riverside, Indian Wells, Commerce, San Diego, West Covina and Pasadena, these Cities themselves, the County of Los Angeles, the Los Angeles Unified School District, the Santa Ana Unified School District, the San Bernardino City Unified School District, the Pomona Unified School District, the Redlands Unified School District, the Basset Unified School District, the Long Beach Community College District, the Rancho Santiago Community College District, the Rim of the World Unified School District, the Alvord Unified School District, the Coastline Community College, the Orange County Transportation Authority, the Alameda Corridor Transportation Authority, the Riverside County Transportation Commission, and the San Bernardino Associated Governments..

3. Proposed General Counsel and Assistant General Counsel: Qualifications

We propose that **Keith E. McCullough** act as General Counsel with **Thierry R. Montoya** acting as Assistant General Counsel, to the Watermaster. The combined experience of these gentlemen will provide the Watermaster with environmental regulatory counseling; representation in local, state, and federal administrative and judicial proceedings; and the complete representation of the Watermaster in all aspects of the General Counsel services as described in the scope of legal services as contained in the Request for Proposals. Specifically, Mr. McCullough and Mr. Montoya represent clients with interests in surface and groundwater rights, riparian rights, water transfer, water appropriation and water banking issues, Indian and pueblo water rights, stormwater runoff, groundwater contamination, Public Trust Doctrine issues, the planning and implementation of major public projects, including CEQA/NEPA review of the same, local permitting, habitat and wetlands issues, municipal law, Clean Water Act and state counterparts to such, Porter-Cologne Act, Endangered Species Act issues, and eminent domain and inverse condemnation issues, including constitutional restrictions pertaining to land use issues.

Mr. McCullough previously acted as general counsel to Laguna Irrigation District (approximately 40,000 acres; Fresno and Kings Counties) providing advice and addressing all aspects of the Brown Act, Public Records Act, applicable sections of the Water Code, Fair Political Practices Act, and other statutes and regulations for that District. Mr. McCullough first acted as Special Counsel to that District for many years addressing surface and ground water rights, appropriation permits, CEQA compliance and eminent domain. The District then requested that Mr. McCullough serve as its general counsel, which he did for several years. Mr. McCullough has also served as special counsel or assistant general counsel to the Rowland Water District (Los Angeles County), Castaic Lake Water Agency (Los Angeles and Ventura Counties), Metropolitan Water District of Southern California, Water Replenishment District of Southern California (Los Angeles County), and several cities and special districts.

Mr. McCullough has addressed numerous Public Records Act requests including through litigation on behalf of both public entities and those seeking public records. He has advised clients regarding Brown Act, Political Reform Act and Fair Political Practices Act issues, Government Code § 1090 conflict provisions and applications, contracting under the Public Contracts Code, and a host of other issues regularly addressed by water districts and other public agencies.

Water and Natural Resource Representation

Mr. McCullough and **Mr. Montoya** have represented public agency and private interests directly in the following representative activities in water and natural resource practice, in addition to the groundwater basin representation work set out in section 2 above:

- Provided water rights opinions and assisted with project implementation for a major subsurface water pipeline project with perceived impacts to an adjoining Indian Reservation with *Winters* Doctrine and reserved Indian water rights implications;
- Adjudicated groundwater rights in a critically-overdrafted groundwater basin in Central California in state court;
- Served as General Counsel to a water district subject to an accord and agreement addressing all riparian and appropriative water rights amongst 28 member agencies in the Kings River watershed in the Central Valley;
- Interpreted and implemented water contracts for the appropriation and delivery of water from a major river system to numerous irrigation districts, mutual water companies and municipalities in Central California;
- Compliance with Regional Water Quality Control Board and Army Corps of Engineers section 401 certificates and 404 "dredge and fill" permits involving commercial and residential projects hydraulically connected to "waters of the United States";
- Represented clients before the State Water Resources Control Board and Regional Boards on water appropriation permits and licenses, water rights and water quality matters, including stream systems previously designated as "fully appropriated";
- Represented water districts and water departments in their water, stormwater and wastewater permitting acquisitions and renewals;
- Negotiated and documented multi-district cooperative services agreements for the development, storage and transportation of raw and potable water resources;
- Rendered water rights opinions and provided representation relative to 1926 water rights decree and dispute between public entities as to ground water pumping rights;

- Assisted in the planning, review and implementation of a major off-stream water reservoir in Southern California, including CEQA review, environmental permitting, land acquisition (including eminent domain), construction implementation and litigation claims resolution;
- Implemented treatment and cost recovery actions for municipal wells impacted by toxic groundwater plumes in state and federal courts;
- Environmental review and implementation of water banking arrangements for State Water Contractors in ground water banks in Central California;
- Rendered water rights opinions and implemented projects for major developments in Riverside, Los Angeles, San Bernardino and Yolo Counties;
- NPDES permit applications, renewals and challenges to permit criteria;
- Interpreted CEQA and Clean Water Act's section 401 and 404 regarding environmental review and compliance requirements enabling an Inland Empire water district to construct above-ground water tanks;
- Complied with CEQA and Clean Water Act requirements assisting an Inland Empire water district to construct a wastewater treatment facility, and later exemption of project from "critical habitat" designation;
- Adjudicated inverse condemnation claims associated with storm runoff from public projects affecting tributaries to the Santa Ana River, south Orange County, and the Coachella Valley;
- Represented land developers and their consultants regarding the acquisition and defense of Storm Water Prevention Plans.
- Litigated and subsequently negotiated full resolution of liabilities for clients at contaminated sites, including:
 - Stringfellow Acid Pits (Superfund) (Numerous VOCs)
 - Newmark Basin (Perchlorate and TCE)
 - Brea Oil Fields (Xylene and Benzene)
 - Carson Harbor (Lead)

Also prosecuted and defended private party claims in conjunction with soil and groundwater cleanup at these sites.

- Acted as litigation counsel for the San Gabriel Valley Water Quality Authority (special act district) charged with clean up and restoration of 5 EPA-designated Operable Units in

the San Gabriel Valley. Related litigation actions involved the EPA, multiple PRPs, and several retail water purveyors (Perchlorate, PCE, TCE and other VOCs);

- Negotiated with state agencies (DTSC and RWQCB) and U.S. EPA to resolve environmental actions, including advising clients on clean-up and the implementation of institutional controls on contaminated properties, including the negotiation of regulatory directives and closure instruments;
- Represented both private and public entities in soil and groundwater cleanups dealing with a full spectrum of sites from Brownfields, school sites, Underground Storage Tanks, well sites, as well as actions invoking the Polanco Act;
- Implemented treatment and cost recovery actions for municipal wells impacted by toxic groundwater plumes in state and federal courts; and
- Advised numerous clients about potential federal, state and private party liabilities arising from environmental conditions, particularly presence and migration of hazardous substances. Prosecuted, defended and settled regulatory and private party claims and lawsuits arising from such conditions, and environmental crimes.

4. Attorney Resumes

Please see the attached resumes for Mr. McCullough and Mr. Montoya.

5. Legal Approach

AS is capable of, and will meet or exceed, all of the legal services requirements expressed in the Watermaster's Request for Proposal. We will use a team approach to provide services to the Watermaster thereby drawing on the specialized experience of the participating attorneys to best represent the Watermaster. Mr. McCullough and Mr. Montoya are especially adept at using this approach and have worked together on many matters for many different clients each lending particular expertise to the benefit of the client.

We will be careful to fully assess and understand background information before rendering opinions to Watermaster. This is very important for the provision of sound legal advice. We pride ourselves on being strategic in our approach to problem solving and in developing a cogent game plan and particular task list with recognized deadlines. We have a long history of working seamlessly with agency staff and clearly identifying activities and information that staff will address and activities and information counsel will address. While Mr. McCullough and Mr. Montoya will provide the vast bulk of the services to the District, when necessary we also intend to draw on assistance from our skilled associates and other partners to meet work load requirements and address specialized assignments as may be required.

6. Compensation

AS proposes to conduct basic General Counsel activities for a flat monthly retainer of \$1750.00 per month in those months that Watermaster holds a regularly scheduled meeting. This retainer would cover the following services only:

1. Preparation for and attendance at one regular meeting of the Watermaster in a month, now scheduled for the first Wednesday of every even numbered month throughout the year;
2. Assistance with the preparation of agendas, notices, ordinances, and resolutions concerning the Watermaster's business in anticipation of or as a result of regular meetings;
3. Analysis of proposed and enacted legislation, published legal opinions, and other matters that may have an impact on the operations of the Watermaster; and
4. Provide advice and assistance to Watermaster staff and directors on matters of law including the Brown Act, Government Code, Water Code, conflict of interest and Political Reform Act and assisting them in seeking advice from regulatory agencies such as the Fair Political Practices Commission.

All other services, including those listed below, would be performed at the hourly rates set forth below:

1. Attendance at additional meetings as requested;
2. Review of contracts, bid specifications, and purchasing documents for the purposes of legal and policy compliance, appropriate risk transfer, and risk analysis and avoidance;
3. Preparation of written legal opinions on matters concerning Watermaster business at the request of the Board, General Manager or designee;
4. Consultation with Watermaster staff and/or the Watermaster's labor counsel regarding personnel matters, labor relations matters, litigation, and other matters concerning Watermaster business, as requested;
5. Advise the Watermaster as to whether to file claims or commence litigation, and representing the Watermaster in connection with certain claims and litigation filed by or against it;
6. Provide legal assistance and consultation to Watermaster staff and directors on matters of environmental compliance, including ESA, CEQA, CWA and NEPA as they pertain to actions by the Staff and Board;

7. Provide legal assistance and consultation to Watermaster staff and directors on matters of property rights and property management, including trespass, encroachment, lessee obligations, easements and lienholder access;
8. Litigation, Arbitration or Mediation undertaken for or on behalf of the Watermaster; and
9. Such other activities as directed by the President, Board of Directors, General Manager, or other designee.

Keith E. McCullough will be primarily responsible for your representation. Of course, all of the resources of AlvaradoSmith will be available to you. From time to time, we may involve other attorneys or paralegals in your work where this is appropriate and cost-effective.

Our legal fees for hourly-rate work are based on how much time is spent on your matter and by whom it is spent. Time is charged in minimum units of tenths (1/10) hours.

The special, significantly discounted hourly rates for attorneys and paralegals rendering services to Watermaster's for activities beyond those included in the monthly retainer are:

| | |
|--------------------|-------|
| Keith McCullough | \$315 |
| Thierry Montoya | \$315 |
| Other Shareholders | \$315 |
| Firm Associates | \$265 |
| Paralegals | \$125 |

For those activities not covered by the standard retainer, Watermaster may also elect to utilize a blended flat rate of \$285 per hour which would be applicable to all attorneys at the firm.

Our hourly rates are subject to revision as determined by AS's Board of Directors and upon prior notice to Watermaster. We will provide you with information regarding our current hourly rates at your request at any time. You will be able to determine the hourly rates of each attorney and paralegal working on your matter from our monthly statement. Work performed under the monthly retainer will also be designated.

In addition to fees for professional services, our bills will include various costs and expenses we incur in performing legal services under this agreement with no mark up. The costs and expenses commonly include fees fixed by law or assessed by public agencies, long distance telephone calls, messenger and other delivery fees, postage, parking and other travel expenses, computerized legal services, photocopying and other reproduction costs, clerical staff overtime, word processing charges, charges for computer time and other similar items. If required in the course of representing you, we would also include the cost of transportation, meals, lodging and all other costs of any necessary out-of-town travel by our personnel outside of the Riverside County/Orange County area. Travel time to and from the Watermaster will not be billed.

7. No Conflicts of Interest

We have had no matters adverse to the Beaumont Basin Watermaster or its member entities. Furthermore, while we have familiarity with the Beaumont Basin and environs, we do not represent interests that would compromise our ability to pursue the Watermaster's interests with singular focus. We currently foresee no conflicts of interest in our proposed representation of the Watermaster. Naturally, we will advise you immediately if we become aware of any actual or potential conflict of interest.

8. "Value-Added" Benefits to the Watermaster

Mr. McCullough is a frequent speaker and author on topics within his practice areas. He has been the featured speaker or presenter to organizations such as the Association of California Water Agencies, Appraisal Institute, International Right of Way Association, California Special Districts Association, Orange County City Attorneys Association, and Lorman Educational Seminars. His prior presentations on a number of topics are available free of charge to the Watermaster and its representatives.

Mr. McCullough and Mr. Montoya also jointly publish a quarterly newsletter for their clients and other contacts on pertinent topics including water quality, storm water discharge, water rights and other topics of interest to water districts in California. This newsletter will be available to Watermaster personnel free of charge.

Mr. Montoya also serves on the editorial board of the *Environmental Liability, Enforcement & Penalties Reporter* and reviews and summaries at least three State and/or Federal reported decisions addressing compliance issues each month. This work will also be available to the Watermaster without cost.

9. References

- Jeffrey Kightlinger
General Manager
Metropolitan Water District of Southern California
P.O. Box 54153
Los Angeles, California 90054
Phone: 213 217-1129
- Stacey Aldstadt
General Manager
City of San Bernardino Municipal Water Department
300 N. D Street
San Bernardino, California 92402
Phone: 909 384-5091

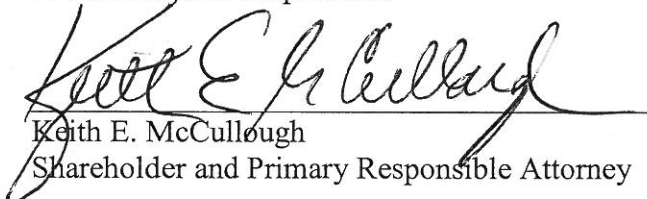
- Dan Masnada
General Manager
Castaic Lake Water Agency
27234 Bouquet Canyon Road
Santa Clarita, California 91350
Phone (661) 297-1600
- Corrie Kates
Community Development Director
City of Indian Wells
44-950 Eldorado Drive
Indian Wells, California 92210-7497
Phone: 760 776-0229, ext. 245
- Janet R. Morningstar, Esq.
General Counsel, Rowland Water District
1048 Irvine Avenue, Suite 407
Newport Beach, California 92660-4602
Phone: 949 274-0972

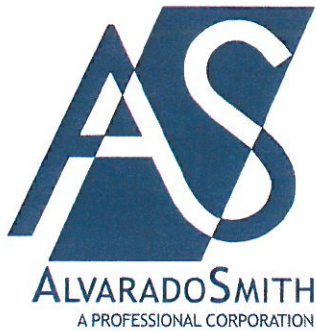
10. Signature and Declarations

This proposal is genuine, and not sham or collusive, nor made in the interest or on behalf of any person not named therein; the proposer has not directly or indirectly induced or solicited any other proposer to put in a sham bid, or any other person, firm or corporation to refrain from submitting a proposal, and the proposer has not in any manner sought by collusion to secure for themselves an advantage over any other proposer.

Dated: April 13, 2012

ALVARADOSMITH
A. Professional Corporation


Keith E. McCullough
Shareholder and Primary Responsible Attorney



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Keith E. McCullough is a Shareholder and Chair of the Real Property, Environmental and Natural Resources practice group at AlvaradoSmith, APC. He has extensive experience in bench and jury trials, complex binding and non-binding arbitrations, mediations and appellate work in State and Federal courts, with an emphasis in Eminent Domain, Natural Resources and Environmental Law, Construction Law and Litigation. Mr. McCullough practices Eminent Domain and Inverse Condemnation for public agencies, property owners, and public utilities. He is a Martindale-Hubbell AV rated lawyer, a peer-review rating that designates the highest level of competence and ethics.

Mr. McCullough's real property, natural resource and environmental litigation experience also includes easements, rights of way, land use and zoning restrictions, complex title issues, major public improvement projects, CEQA/NEPA, water rights and drainage, land subsidence, renewable energy projects, subsurface mineral and gas rights, public construction and public law and compliance issues. Mr. McCullough has been lead eminent domain counsel in some of the highest-valued single parcel acquisitions in California history. He has been retained as a litigation expert, mediator and referee addressing eminent domain issues.

Mr. McCullough has been the featured speaker or panelist for organizations such as the International Right of Way Association, Association of California Water Agencies, Appraisal Institute, ABA Real Property Section - Environmental Subcommittee, California Special Districts Association, West Coast Landmens Association, Orange County City Attorneys Association, and Lorman Educational Seminars. He has authored several articles addressing issues in his areas of practice for the International Right of Way Association, ABA Real Property Section - Environmental Subcommittee, and State Bar of California - Public Law Journal.

Practice Groups

- ▲ Real Property, Environmental and Natural Resources
- ▲ Construction Law
- ▲ Public Law and Municipal Governance

Experience

- ▲ Lead Counsel in several jury trials in eminent domain and inverse condemnation to verdict; numerous bench trials and judicial determinations addressing right to take issues, precondemnation damages, CEQA compliance and project designation, lost business goodwill, competing public use issues, and the Polanco Act in eminent domain
- ▲ Lead Counsel in several CEQA and Public Records Act writ petitions prosecuted to favorable resolution in Superior and Appellate Courts throughout California
- ▲ Prosecuted and won a favorable binding arbitration decision implementing the components of a wind farm renewable energy repower project with related Interconnection Agreement and Power Purchase Agreement before the American Arbitration Association
- ▲ Conducted and won a three month bench and jury trial characterizing drainage water and storm water discharge through coastal properties in southern California
- ▲ Conducted and won a three week jury trial addressing claims for wrongful termination of a public works construction contract and bond impairment involving "essential facilities" and critical emergency response communications
- ▲ Representation of private and public entities in soil and groundwater cleanups dealing with a full spectrum of sites including Brownfields, school sites, Underground Storage Tanks, well sites, and actions invoking the Polanco Act
- ▲ Planning, review and implementation of a major off-stream water reservoir in southern California, including NEPA/CEQA review, environmental permitting, land acquisition (including eminent domain), construction implementation and litigation claims resolution
- ▲ Adjudication of groundwater rights in a critically-overdrafted groundwater basin in central California in state court
- ▲ Implementation of treatment and cost recovery actions for municipal wells impacted by toxic groundwater plumes in state and federal courts
- ▲ Water rights opinions and interpretation and implementation of water contracts for the appropriation and delivery of water from a major river system to numerous irrigation districts, mutual water companies and municipalities in central California
- ▲ Interpretation of Fish and Game Code section 5937, Public Trust Doctrine impacts, and the application of the Endangered Species Act in the context of water releases from major reservoir projects and effects on downstream biological resources
- ▲ Representation before the State Water Resources Control Board and Regional Boards on water appropriation permits and licenses, water rights and water quality matters, including stream systems previously designated as "fully appropriated"
- ▲ Lead counsel in handling litigated claims of changed circumstances, project delay and lost profits in a major storm water, sewer and roadway rehabilitation project in Riverside County, California
- ▲ Lead project implementation counsel for the State Water Project - East Branch Extension. The project included planning for and acquiring 131 fee parcels and easements for a 60 inch welded steel water line, and addressing environmental mitigation and construction delay claims associated with the project
- ▲ Lead counsel in project implementation and land acquisition necessary for the \$50 million Arlington Avenue railroad grade separation project in Riverside. Tried and defeated neighboring property owner claims for damages associated with project implementation and alleged contaminated spoil dirt disposal

Education

- ▲ J.D., University of Wisconsin (1989)
- ▲ B.A. (Political Science), Brigham Young University (1986)
- ▲ All District Seven Academic Athlete; Finalist, Academic All-American
- ▲ Center, BYU National Championship (1984) Football Team (1980-1985)

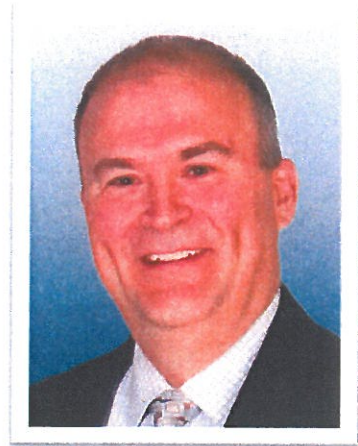
Involvement

- ▲ International Right of Way Association, Orange County Chapter (President, (2003) Newsletter Editor (1999-2000)) and Inland Empire Chapter
- ▲ California Condemnation Attorneys Group
- ▲ Orange County City Attorneys Association
- ▲ State Bar of California (Member, Real Property (Eminent Domain Subcommittee, Environmental and Litigation Sections)
- ▲ Orange County Bar Association (Member, Business Litigation and Real Property Sections)
- ▲ Riverside County Bar Association - Barristers (President, 1992-93)
- ▲ Orange County Youth Sports Foundation (Veterans Committee Chair, 2008 - present, President, 2005-06; Secretary 2001-04, Board of Directors, 1999 to present)



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714.852.6800



Thierry R. Montoya is a Shareholder in the Firm's Santa Ana office and the Chair of the Construction Law Department. He represents clients in environmental, land use, construction, and eminent domain matters across the state, and in federal jurisdictions throughout the United States.

Thierry represents manufacturers, landowners, and product distributors in state and federal soil and groundwater cleanup actions. He also represents a wide array of industrial and manufacturing clients in state and federal air and water environmental enforcement actions, environmental crimes included. Thierry represents public and private entities in CERCLA, RCRA, Porter-Cologne, Clean Air Act, Clean Water Act, NPDES, environmental enforcement/environmental crimes, CEQA/NEPA, Endangered Species Act, land use, eminent domain, inverse condemnation, and redevelopment issues.

Thierry represents owners, developers, subcontractors, and suppliers in large public and private works projects. Representation includes delay and inefficiency; environmental remediation; design, soils, and engineering; false claims act; stop notice and lien; and public bidding claims.

Thierry is a frequent speaker at environmental conferences a regularly published writer on environmental and natural resources matters, and an Editor with the nationally published Environmental Liability Enforcement & Penalty Reporter for the last 7 years.

Practice Groups

- ▲ Environmental and Natural Resources
- ▲ Construction

Experience

- ▲ Environmental
- ▲ Water Law
- ▲ Eminent Domain
- ▲ Real Estate
- ▲ Construction

Education

- ▲ J.D., University of Notre Dame, 1991
- ▲ B.A., University of California, Riverside, 1982

Involvement

- ▲ Member, California State Bar
- ▲ Member, Orange County Bar Association
- ▲ Editor, Environmental Liability Enforcement & Penalty Reporter

Proposal for Professional Legal Services

Burke, Williams & Sorenson, LLP

Proposal to Provide

Professional Legal Services
for the
Beaumont Basin Watermaster

Submitted by
Joseph P. Byrne
Eric S. Vail

Burke, Williams & Sorensen, LLP
2280 Market Street, Suite 300
Riverside, California 92501
Tel: 951.788.0100
Fax: 951.788.5785

April 16, 2012

burke
BURKE, WILLIAMS & SORENSEN, LLP

Transmittal Letter

April 16, 2012

Eric Fraser, General Manager
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Re: Response to Request for Proposals to Provide
Legal Services for the Beaumont Basin Watermaster

Dear Mr. Fraser:

On behalf of and as authorized by Burke, Williams & Sorensen, LLP ("Burke"), I am pleased to submit this proposal in response to the Beaumont Basin Watermaster's ("Watermaster") Request for Proposals for legal services. We are very excited about this opportunity and, if selected, would be honored to work with you.

Burke was established in 1927 and has a long history of providing excellent legal services at reasonable rates. The team we are proposing has significant general counsel and water law experience and has the expertise, depth, and commitment to provide you with all of the services requested. We also have no conflicts of interest that would impact our ability to represent the Watermaster.

As described in the attached materials, which together with this transmittal comprise a total of 19 pages, we propose that Joseph P. Byrne serve as partner-in-charge, supported by a team of attorneys with a variety of experience relevant to your needs.

Mr. Byrne is genuinely passionate about water issues and has been working on them for the last 14 years. He is a member of Burke's Public Law Practice Group and advises all types of public entities, including water districts and municipal water utilities, on a broad range of public law issues, including the Brown Act, Public Records Act, CEQA, conflicts of interest, and all types of contracts. He also is experienced with advising clients on water issues, including water planning, many types of agreements, water rights, water quality, water conservation, and water policy. In addition to his legal work, Mr. Byrne served as the chief water consultant to the Speaker of the State Assembly and in 2010, was appointed by the Governor to the California Water Commission, on which he serves as Vice-Chair. He also teaches a class on water at the UCLA School of Public Policy.

Eric Fraser
April 16, 2012
Page 2

Mr. Byrne's contact information is:

Joseph P. Byrne, Partner
444 South Flower Street, Suite 2400
Los Angeles, California 90071
Tel: 213.236.0600
Fax: 213.236.2700
jbyrne@bwslaw.com

While Mr. Byrne primarily works out of the firm's Los Angeles office, he spends time working in Riverside County and will work closely with other attorneys and me who work in our offices in Riverside and Palm Desert on this project. These offices are located at:

Inland Empire
2280 Market Street, Suite 300
Riverside, California 92501
Tel: 951.788.0100
Fax: 951.788.5785

Palm Desert
73-929 Larrea Street, Suite 4A
Palm Desert, CA 92260
Tel: 760.776.5600
Fax: 760.776.5602

The additional members of the team include myself and partners Amy E. Hoyt, Joseph P. Buchman, Alexandra M. Barnhill, and J. Leah Castella, and associate Matthew Visick. The expertise of each of these attorneys is discussed further in the following pages.

Thank you very much for considering us. If you have any questions regarding this proposal, or if you would like additional information, please feel free to contact me or Joe Byrne at the number listed above. I look forward to hearing from you.

Very truly yours,

BURKE, WILLIAMS & SORESENSEN, LLP



Eric S. Vail
Partner

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FIRM BACKGROUND AND GENERAL QUALIFICATIONS

Formed in 1927, Burke, Williams & Sorensen LLP was one of the original firms in California to develop a public law specialty and is recognized as a top public law firm in California.

Burke currently has 95 attorneys in eight offices, two of which are located in nearby Riverside and Palm Desert, and others in Orange County, Los Angeles, Ventura County, Silicon Valley, Oakland, and Marin County. We are organized into five practice groups: Public Law, Litigation, Labor and Employment Law, Education Law, and Real Estate and Business. Our public law attorneys serve as contract city attorneys for cities throughout the state and as general, special, or agency counsel for a variety of other public agencies, including special districts, and we provide legal representation to many other public agencies.

We have a proven track record of winning cases in our firm's areas of expertise, including environmental and public law matters. Our attorneys handle trials, administrative hearings, arbitrations, mediations, and appeals in federal court, state court, and before public agencies, and have significant experience in Riverside County.

Our Public Law Practice Group contains many sub-groups and teams allowing our attorneys to specialize in particular areas of public law while still maintaining general public law expertise. Several of these sub-groups are listed below:

Public Entity Administration and Municipal Law

- Open Meetings Laws (Brown Act)
- Public Records Act
- Conflicts of Interest
- Election Law Issues – Initiative, Referendum & Recall
- Public Finance & Taxation
- Public Works & Contracts
- Solid Waste Franchising
- Trial & Appellate Litigation
- Asset Foreclosure
- Section 1983 Civil Rights Claims

Land Use and Environmental Law

- Land Use Planning & Zoning
- California Environmental Quality Act (CEQA)
- Development Agreements
- Growth Management
- Historic Preservation
- Annexation & Incorporation – LAFCO Proceedings
- Redevelopment & Economic Development
- Endangered Species
- Sustainability & Green Building
- Water Law & Public Trust

Public Sector Labor and Employment

- Grievances
- Labor Negotiations
- Disciplinary Hearings
- Personnel Advice
- Trial & Appellate Litigation
- Meyers-Millias-Brown Act
- Public Safety Officers Procedural Bill of Rights
- Title VII
- California FEHA
- ADA

PROPOSED TEAM AND SPECIFIC QUALIFICATIONS

While the full roster of Burke attorneys will be available for matters that may arise, we have assembled a team of experienced lawyers with specific expertise that address the qualifications sought. We feel our team's depth of experience makes us uniquely qualified to assist with your immediate and future needs.

We are proposing the following team. Each member's professional summary is included under Attachment A. Professional summaries for all the firm's attorneys may be found at www.bwslaw.com

Joseph P. Byrne, Partner-in-Charge: Mr. Byrne is very qualified to provide the Watermaster with and coordinate the provision of excellent legal services. As indicated above, Mr. Byrne advises municipalities and special districts on general public law and water law issues. With regard to water, he has advised clients on a number of water-related agreements, including water transfer agreements, urban water management plans, surface and groundwater rights, water quality issues, water-related ordinances, and general water policy and legislation. He also counsels clients on general public law issues that public agencies deal with on a daily basis, including the Brown Act, Public Records Act, and conflicts of interest laws, and he regularly drafts agreements of many types. His experience working on water issues in the Legislature and his role as a member of the California Water Commission also give him a unique and valuable understanding of water policy issues that often present themselves at the local level.

Eric S. Vail, Partner: Mr. Vail works in Burke's Riverside office and would work closely with Mr. Byrne to provide the highest quality services to the Watermaster. In addition to his role as City Attorney for the cities of Hemet and Temple City and thorough knowledge of general public law issues, he has significant water law experience, much of it related to groundwater. He has advised clients on the Santa Maria Basin adjudication, on compliance issues with the adjudicated Chino and Mojave basins, water rights, water transfers, and water purchase agreements. He also served as co-counsel on the winning side in the *City of Barstow v. Mojave Water Agency*, 23 Cal.4th 1224 case and has experience interacting with a variety of watermasters, water districts, and private interests.

Amy E. Hoyt, Partner: Ms. Hoyt works in Burke's Riverside office and is a very accomplished litigator, appearing mostly in Riverside and San Bernardino counties. She has particular experience in environmental matters, including the CEQA, NEPA, Endangered Species Act, Clean Water Act, Safe Drinking Water Act, and land use, and has worked closely with federal and state regulatory agencies. She has argued appellate cases in the 9th Circuit Court of Appeals and the State Court of Appeals. Ms. Hoyt would be the primary person to represent the Watermaster in court.

Alexandra M. Barnhill, Partner: Ms. Barnhill regularly advises cities, special districts and joint powers agencies on a wide variety of public and water law issues and is the Assistant General Counsel to the Livermore-Amador Valley Water Management Agency. She is an expert in the Brown Act, Public Records Act, and conflicts of interest and ethics laws, and she is well versed in water law, having represented a water

conservation district for more than six years. She also has specific experience working with and advising the Chino Basin Watermaster.

Joseph P. Buchman, Partner: Mr. Buchman advises clients on public, real estate, business, and corporate law matters, and serves as the General Counsel for the Montebello Land and Water Company. He has particular expertise advising clients on water-related agreements, including lease agreements and watermaster reports. He also advises clients regarding compliance with the California and Federal Safe Drinking Water Acts and implementing regulations, including annual water quality reports and the California Department of Public Health's oversight of water suppliers' water quality monitoring and reporting requirements.

J. Leah Castella, Partner: Ms. Castella specializes in public law litigation and has represented a number of municipal water utilities. She has particular expertise in complex water rights cases, including a recent case involving the Public Trust Doctrine and Fish & Game Code section 5937, and interpreting water rights agreements.

Matthew Visick, Associate: Mr. Visick has developed expertise in public law, advising mostly cities, counties and special districts, and has particular experience working on environmental matters. His background working for the California Public Utilities Commission and California Assembly enables Mr. Visick to interpret laws, legislation and regulations for his clients and to advise them on administrative proceedings

Our proposed team is very qualified to represent the Watermaster in the areas that are desired, as well as a number of additional areas that may arise.

Ability to Represent the Watermaster in Superior Court in Riverside

Burke would be very capable of representing the Watermaster in Superior Court in Riverside. As indicated above, Amy Hoyt is based in Riverside and is an accomplished litigator with experience litigating CEQA, NEPA, Endangered Species Act, and the Clean Water Act, among other issues, and appears mostly in Riverside County. Eric Vail is also based in Riverside and has specific experience litigating groundwater issues. In addition, Leah Castella litigates complex water issues and Joseph Byrne and Joseph Buchman also frequently appear in court. As indicated above, Burke also has a large number of excellent litigators and we have a long history of successes in a variety of court matters, and in particular, in Riverside County. As such, we believe we are eminently capable of representing the Watermaster in administrative and legal proceedings related to enforcement of the Judgment.

Knowledge of California Water Code and Expertise in Water Law

As demonstrated above, the proposed team has extensive experience advising public and private clients, including a number of cities with municipal water utilities, on a wide variety of water law issues, including water rights (surface and groundwater water rights and adjudicated rights), water quality (including Safe Drinking Water Act compliance), the public trust doctrine, water transfer and lease agreements, water planning, water conservation, and interactions with groundwater management

agencies and wholesale and retail water providers. On the whole, we are very familiar and comfortable with the Water Code and navigating it.

Water Rights

Specifically, Burke has represented and advised a number of public clients on implementing and complying with groundwater basin adjudications, including the cities of Ontario, Hesperia, Hemet, and Guadalupe. The team also has experience representing private interests in groundwater rights disputes. As indicated above, Eric Vail served as co-counsel in the *City of Barstow v. Mojave Water Agency* case, and represented several private agricultural producers in a groundwater rights dispute. He also represented similar agricultural producers in the Santa Maria Basin Adjudication. In addition, Alexandra Barnhill has direct experience working for a basin watermaster, and Joseph Buchman advises a client with groundwater rights in an adjudicated basin regarding their interactions with the watermaster. The team also has experience assisting a number of other clients with different issues related to their groundwater rights and operations.

Leah Casella has advised water utilities on their interactions with the Department of Fish and Game, responding to water rights claims, and interpreting water rights agreements. She also successfully defended a complex water rights case brought against a city client alleging that its dam operations violated the Public Trust Doctrine and Fish & Game Code section 5937. Following the litigation, she worked extensively with the client on a Bypass plan that involved detailed hydrological and biological analysis of the watershed.

Water Agreements

Our team has advised clients in northern and southern California on many types of water-related agreements, including water transfer and lease agreements and water recycling agreements. For example, Joseph Byrne and Eric Vail recently advised a client on a water transfer involving the San Francisco Public Utilities Commission. In addition, Mr. Byrne was heavily involved in the Colorado River QSA negotiations in 2002 and has interacted with the relevant state agencies regarding water transfers. Mr. Buchman frequently assists his clients with lease agreements and compliance with watermaster rules and regulations. Mr. Byrne and Mr. Buchman are also familiar with conjunctive use agreements and as primarily transactional attorneys, draft and negotiate agreements of all types on a very regular basis.

Water Quality

Amy Hoyt has litigated water quality issues and is well versed in the Endangered Species Act, CEQA, NEPA, and dealing with state and federal agencies in the context of litigation. She has also defended lead agencies in numerous CEQA based lawsuits, including cases challenging EIRs and Negative Declarations and advises municipal utilities on the Safe Drinking Water Act. Mr. Buchman advises clients regarding compliance with the California and Federal Safe Drinking Water Acts and implementing regulations, including annual water quality reports and the California Department of

Public Health's oversight of water suppliers' water quality monitoring and reporting requirements.

Public Works

Our team is very experienced working on public works projects, including water treatment plants, water pumping stations, water lines, sewer treatment plants, energy facilities, structures and buildings, roads and bridges. For example, we are currently advising a public client in connection with a \$30 million groundwater treatment plant which will include property acquisition, bidding and construction.

From our involvement in basin adjudications and our general representation of water purveyors, as well as past representation of agricultural and other private interests, we have developed a strong understanding of water law and in particular, water rights. These experiences have allowed us to interact with a variety of watermasters, public water purveyors, agricultural producers and land owners, and to become well versed in the often competing interests of each. We are confident that we have the experience to assist the Watermaster in the areas in which legal services are needed.

Water Policy/Legislative Analysis

Our team is uniquely well-qualified to provide water policy and legislative advice to the Watermaster. We have considerable understanding of and experience working on water policy issues at the state and local level, which enables us to understand many of the larger policy and political issues and provide sound counsel as a result.

In particular, Joseph Byrne worked on water issues for the Speaker of the California Assembly for over four years, drafting water-related legislation and working on a variety of important water issues, including many related to the Delta and the Colorado River. He has developed a solid understanding of many of the complicated water issues that face southern California and the State and is in a good position to assist the Watermaster with any legislative analysis. He also interacts frequently with the Department of Water Resources and a number of other state agencies and boards, as well as many non-governmental interest groups.

Beaumont Basin Judgment

We have reviewed and familiarized ourselves with the Beaumont Basin Judgment and are confident that we can provide the services desired with regard to the implementation of it. A number of members of the team are familiar with groundwater adjudication judgments and we understand the foundations of the judgment.

Brown Act, Public Records Act, and Conflicts of Interest

Our attorneys are experts in the application of the Brown Act and the Public Records Act, and we have experience in all aspects of each of them, including litigation.

We regularly work closely with staff in the preparation of agendas and agenda packets, including reviewing agenda descriptions for open and closed session items and preparing and reviewing agenda reports prepared by staff. We regularly participate in Board meetings and have substantial experience in advising public clients on meeting procedures. Our team members frequently conduct trainings and workshops on the Brown Act and the Public Records Act, and have published in these areas.

We also have particular expertise working with and advising clients on conflicts of interest issues, and policies and offer trainings in this area as well.

Ability to Act as the Watermaster's Ethics Officer

We recognize that public scrutiny is ever increasing for agencies that control public resources. For this reason, our attorneys understand that the public expects officials to do what is ethical, even if that means going beyond what the law requires. When ethical issues arise, we are prepared to advise our clients on these difficult matters.

In particular, Alexandra Barnhill is considered an expert on conflicts of interest and other ethics laws, and regularly lectures on achieving compliance with governmental ethics requirements. She has developed a unique curriculum to satisfy the requirement for public officials to obtain ethics training under Assembly Bill 1234 which has received very positive feedback from the Association of California Water Agencies JPIA. Also, Ms. Barnhill and Mr. Vail were recently acknowledged by their peers as experts in this field when they were individually appointed to act as representatives on the League of California City's Fair Political Practices Committee. With this background, we feel we are well qualified to serve as the Watermaster's ethics officer.

GENERAL APPROACH AND QUALITY CONTROL

We will work with the Watermaster Committee to determine the most efficient working relationship to meet your needs in a timely and responsive manner. We are confident that we have the qualifications to provide services requested in the Scope of Work.

Our services are client-specific, not "one size fits all." From the outset, we will listen carefully to each of your issues and work collaboratively to find the appropriate solutions. We take pride in being responsive and having open lines of communication and your needs would be our high priority. We believe in problem solving in the performance of all aspects of our work, and work to avoid unnecessary conflict.

We attempt to give our clients realistic, pragmatic advice, not just tell them what the law is. We describe alternatives, analyze the risks and benefits for each alternative, and discuss the steps necessary for each alternative when appropriate to do so. When possible, we make affirmative recommendations or try to describe the factors that will

favor one alternative over another. When we do not know the answer to a question, we say so.

Mr. Byrne's and the Burke team's general approach would be as follows:

- Learn your customary way of working, so that we complement such.
- Build upon the existing forms and practices, avoiding reinvention unless it will lead to increased efficiency.
- Take advantage of the fact that we represent many public agencies and can spread the cost of work that is applicable to multiple clients.
- Use standard forms, adapted for your particular style and preferences, to expedite document review, and electronic document drafts.
- Limit written memoranda to cases where they are requested.
- Avoid litigation when possible and when it is not, develop a strategy for the entire case at the outset, in consultation with the Watermaster.
- Respond promptly to all requests for assistance.
- Offer realistic, pragmatic advice, including alternatives and related risk/benefit analyses when appropriate.
- Do our best to be as efficient and cost effective as possible. The fact the team has so many well experienced partners helps us to be very efficient.

To the extent that workflow or other questions arise, Mr. Byrne will promptly address those to make sure that we provide the best service possible, within the Watermaster's budget and consistent with your organizational goals and applicable law.

CONFLICTS OF INTEREST

Before representation is undertaken by the firm for each new client and each additional matter for an existing client, the responsible partner must perform a conflict check and obtain the approval of the Managing Partner. The conflict check consists of a search through Burke's computerized database of billing records, client matter lists, and related names/parties to identify potential conflicts. This database is regularly and routinely updated. The responsible partner is provided with the results of this search and must then review and follow up on each potential conflict listed to determine whether a conflict has arisen under the Rules of Professional Conduct and under any special conflict rules imposed by the client. The matter is then discussed with and approved by the Managing Partner.

We are pleased to note that our search of our database for the City of Banning, City of Beaumont, Beaumont Cherry Valley Water District, South Mesa Mutual Water Company,

Yucaipa Valley Water District, as well as other individuals/entities, resulted in no known conflicts of interest. In addition, the firm does not represent or have a known conflict with any other Appropriator or Overlying entities within the Beaumont Basin, and we know of no other entity or company that would present any conflicts. However, as a disclosure, Burke has represented the City of Banning in the past, but no longer does.

FEES AND RATES

We are pleased to provide the requested services at the below discounted rates for general and specialty services. In addition, after six months of working with you, we would be open to reviewing our work history and proposing a fixed retainer for general services.

| Staffing | Hourly Rate |
|--|-------------|
| Partners | |
| General Advice/Transactional | \$215 |
| Specialty & Litigation | \$250 |
| (Labor Negotiations, CEQA, Litigation) | |
| Associates (Any Category of Work) | \$215 |
| Paralegals | \$135 |

Our standard practice is to send out monthly statements, invoicing charges for the prior month. Fees for our services are charged in increments of 1/10th of an hour. The bills provide a specific description of the work performed by all attorneys, time spent on the work item, and applicable billing rate. The bills also contain itemized descriptions of any out-of-pocket expenses incurred during the prior month. Travel time from our Riverside office would be billed at the applicable hourly rates described above.

REFERENCES

| Client Name and Address | Contact Phone Email |
|---|---|
| City of Calistoga 1232 Washington Street Calistoga, California 94515 | Richard Spitler City Manager Phone: 707.942.2805 rspitler@ci.calistoga.ca.us |
| Santa Ynez River Water Conservation District, Improvement District No. 1 PO Box 157 Santa Ynez, California 93460 | Chris Dahlstrom General Manager Phone: 805.688.6015 cdahlstrom@syrwd.org |

| Client Name and Address | Contact Phone Email |
|--|--|
| Montebello Land & Water Company 334 E. Madison Avenue Montebello, California 90640 | Kenneth Bradbury General Manager Phone: 323.722.8654 ken@mtblw.com |
| Rubio Cañon Land and Water Association 583 E. Sacramento Street Altadena, California 91001 | Lillian Woods Director of Operations Phone: 626.791.6944 lwoods@rclwa.org |
| City of Hemet 445 E. Florida Avenue Hemet, California 92543 | Brian Nakamura City Manager Phone: 951.765.2300 bnakamura@cityofhemet.org |
| City of Alhambra 111 South First Street Alhambra, California 91801 | Mary Swink Director of Utilities Phone: 626.570.5090 mswink@cityofalhambra.org |
| Metropolitan Water District Headquarters 700 North Alameda Street Los Angeles, California 90012 | Jeffrey Kightlinger General Manager Phone: 213.217.6139 officeofthegeneralmanager2@mwdh2o.com |

INSURANCE

Burke maintains a \$10 million professional liability insurance policy through Lloyd's of London which has been in continuous effect since 1992. Coverage is on a claims-made basis with coverage and deductible per claim limits of \$10 million and \$250,000, respectively. In addition, we maintain workers' compensation insurance as required by California law on all of our employees, as well as general liability insurance. We will be pleased to provide the appropriate certificates of insurance and endorsements upon award of contract.

CONCLUSION

We feel strongly that we have the experience, dedication, and resources to serve your needs ethically, efficiently, and cost-effectively. Our team is also passionate about water issues and would genuinely enjoy working on your matters. We are happy to provide you with any additional information about our firm, and we welcome the opportunity to meet face-to-face to discuss our capabilities and readiness to represent the Beaumont Basin Watermaster. We appreciate your consideration of our proposal.

STATEMENT OF OFFER AND SIGNATURE

As a partner of Burke, Williams & Sorensen, LLP and a member of its Management Committee, I am authorized to bind the firm to the terms and conditions of the Request for Proposals to Provide Professional Legal Services for the Beaumont Basin Watermaster. Our proposal is a firm offer for a 90-day period.



Eric S. Vail, Partner

ATTACHMENT A
Professional Summaries

ATTACHMENT A – PROFESSIONAL SUMMARIES



Joseph P. Byrne

Joseph Byrne primarily advises public entities, mostly cities and special districts, on a broad range of issues such as the Brown Act, CEQA, Public Records Act, code enforcement, conflicts of interest, personnel, public works bidding and contracts, the Public Records Act, use permits, water, and general compliance with state and federal laws. Mr. Byrne attends public meetings, drafts opinions, ordinances and resolutions, performs general litigation, prosecutes criminal matters, and negotiates and drafts all types of agreements. Mr. Byrne works closely with the cities of Santa Clarita, Rosemead, Alhambra, and Hemet, as well as a number of other cities and special districts throughout the state.

Mr. Byrne has considerable experience working with public and private clients on a variety of issues related to water, including water planning, the drafting of many types of water-related agreements, water conservation, water rights, and regulatory and policy issues. He has represented a number of water districts and municipal utilities on many of these issues. In addition, Mr. Byrne is intimately familiar with the California legislative process, and in particular water policy issues, and provides clients with strategic advice on how to organize and implement effective legislative and regulatory strategies.

In May 2010, Mr. Byrne was appointed by the Governor to serve on the California Water Commission. The Commission has a number of statewide responsibilities related to water. His term expires in 2014. Mr. Byrne is also an adjunct professor at the UCLA School of Public Policy, where he teaches a class on water.

Prior to joining Burke, Mr. Byrne worked in the Government Practice Group of an international law firm, advising clients on a variety of legal issues that mostly related to their interactions with government. From 1998-2002, he worked in the California State Assembly, where he served two years as Counsel to the Speaker of the California State Assembly and as the Speaker's Chief Policy Consultant on water/environment and public safety.

Affiliations

- California Water Commission, Commissioner
- Tierra del Sol, Board Member
- UCLA, School of Public Policy, Adjunct Professor

Partner

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Los Angeles Office
444 South Flower Street
Suite 2400
Los Angeles, California 90071
voice: 213.236.0600
fax: 213.236.2700
jbyrne@bwslaw.com

PRACTICE GROUPS

Public Law
Environmental and
Sustainability

EDUCATION

J.D., University of Notre Dame
Law School, 1997
B.A., University of California,
Berkeley, 1994

ADMISSIONS

State Bar of California, 1997
USD Court for the Central
District of California, 2008



Eric S. Vail

Eric S. Vail, a Partner of Burke, Williams & Sorensen, LLP, is Chair of the firm's Public Law Practice Group and serves on the firm's Management Committee. During his 20 years practicing public law, he has acquired expertise in the areas of general municipal law, public ethics, land use, redevelopment, and water law.

Mr. Vail is the City Attorney for the cities of Hemet and Temple City, General Counsel to Housing Partners and Hemet Community Land Trust, and Special Counsel to the Orange County Development Authority, among others. He also has considerable experience working with clients on water issues, including the following.

Mr. Vail served as co-counsel on the winning side in one of the most important water law cases in recent California history: the California Supreme Court decision of *City of Barstow v. Mojave Water Agency*, 23 Cal.4th 1224 (2000). In that case, Mr. Vail represented several private agricultural producers in a fight to protect their superior groundwater rights and he also represented similar producers in the Santa Maria basin adjudication. He has represented a number of public clients, including the cities of Ontario, Hesperia, Banning, and Hemet in implementing and/or negotiating groundwater basin adjudications and water related planning and transactional issues.

These experiences have allowed Mr. Vail to interact with a variety of watermasters, public water purveyors, agricultural producers and land owners, and to become versed in the often competing interests of these parties. His dealings have also included negotiation and permitting with federal and state regulatory agencies and analysis of water transfer agreements.

Due to his involvement in basin adjudications, as well as special issues for public and private water purveyors, Mr. Vail has achieved a depth of understanding in water law, including water rights, water transfers, and groundwater adjudications. Mr. Vail has assisted public entities in drafting memorandums of understanding, settlement agreements, physical solutions, and other transactional documents related to water. He has appeared before the boards of watermasters and local water purveyors as well as regulatory agencies for purposes of both advocacy and collaboration.

Partner

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evail@bwsllaw.com

PRACTICE GROUPS

Public Law

EDUCATION

J.D., University of the Pacific,
McGeorge School of Law,
1992

B.A., *summa cum laude*,
California State Polytechnic
University, Pomona, 1989

ADMISSIONS

State Bar of California, 1992
USDC for the Central District
of California, 1992



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PRACTICE GROUPS

Litigation

Public Law

EDUCATION

J.D., *cum laude*, Loyola of Los Angeles Law School, 1990

B.A., *cum laude*, Loyola Marymount University, 1986

ADMISSIONS

State Bar of California, 1990

United States Court of Appeals for the Ninth Circuit, 2004

United States District Court for the Central, Eastern, and Southern Districts of California

United States Supreme Court, 2006

Amy E. Hoyt

Amy E. Hoyt is a partner in the firm's Inland Empire office. Ms. Hoyt has extensive experience in public and environmental law, representing clients in a wide variety of matters ranging from complex litigation to advisory work.

Ms. Hoyt's practice focuses primarily on litigating environmental, land use, election and mobile home regulation matters, including cases involving the California Environmental Quality Act, National Environmental Policy Act, Endangered Species Act, Clean Water Act, Federal Voting Rights Act, California Elections Code, and California Mobile Home Residency law.

Versed in dealing with federal and state regulatory agencies, she has handled matters involving the U.S. Fish and Wildlife Service, Bureau of Land Management, California Regional Water Quality Control Board, and California Integrated Waste Management Board. Further, she regularly assists public agencies with the preparation and defense of environmental documents prepared pursuant to the California Environmental Quality Act and the National Environmental Policy Act.

Ms. Hoyt also has extensive appellate experience in both the 9th Circuit Court of Appeals and State Courts of Appeal. Ms. Hoyt achieved a victory in the California Supreme Court in a case vindicating the rights of new cities, *City of Goleta v. Superior Court*, 122 Cal.App.4th 1182 (2007). She also successfully defended a district attorney's office in a Public Records Act case resulting in the published opinion *Rackauckaus v. Superior Court*, 104 Cal.App.4th 169 (2002).

Representative Matters

SCOPE v. City of Santa Clarita, 197 Cal.App.4th 1042 (2011)

City of Goleta v. Superior Court, 122 Cal.App.4th 1182 (2007)

Rackauckaus v. Superior Court, 104 Cal.App.4th 169 (2002)

Publications & Presentations

Sue Now, Pay Later – A New Standard for Challenging Taxes?, *Public Law Update*, November 2009



Alexandra M. Barnhill

As an advisor to cities, special districts and joint powers agencies across California, Ms. Barnhill is familiar with a broad range of municipal and water law matters.

Ms. Barnhill currently acts as Assistant City Attorney and Assistant General Counsel for a number of municipalities, including the Livermore-Amador Valley Water Management Agency. She has served as Assistant General Counsel to a water conservation district in the Santa Ynez Valley and as Special Counsel to a watermaster in the Central Valley.

Partner

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PRACTICE GROUPS

Public Law
Environmental Law

EDUCATION

J.D., University of California,
Berkeley School of Law
Boalt Hall, 2005

B.A., *summa cum laude*,
University of North Carolina
at Chapel Hill, 2001

ADMISSIONS

California State Bar, 2005

Through her experience as General and Special Counsel, Ms. Barnhill has advised her water agency clients on the execution of professional services contracts, municipal finance issues, public works, public contracting and prevailing wage matters. She is also familiar with the unique issues impacting watermasters, and other entities that were created as a result of an adjudication judgment or a joint exercise of powers agreement.

Ms. Barnhill's expertise also extends to more traditional public law issues, such as the Public Records Act and the Brown Act. She is considered an expert on conflicts of interest and other ethics laws, and regularly lectures on achieving compliance with governmental ethics laws. Ms. Barnhill was recently appointed to act as a representative on the League of California Cities Fair Political Practices Committee.

Ms. Barnhill received a Certificate of Specialization in Environmental Law, and has a detailed knowledge of land use, entitlement, environmental compliance (CEQA), and water law matters.

Representative Matters

Serves as Assistant City Attorney for the City of Rohnert Park which provides potable water service to its residents including water production, treatment, storage and distribution.

Successfully defended a water conservation district's ability to develop critical infrastructure to treat the water supply without having to secure county development approvals.

Litigated a case to interpret the scope of development permissible under a stipulated judgment in light of local zoning laws and Coastal Act restrictions.



Joseph P. Buchman

Joseph Buchman maintains a diverse litigation and transactional practice, acts as general counsel to Montebello Land & Water Co., a mutual benefit non-profit water company, and is counsel to the Los Angeles Unified School District School Construction Bond Citizens' Oversight Committee.

Mr. Buchman has extensive background in public, corporate, business, and real estate matters, acquired from years of experience representing and advising clients in bankruptcy matters, eminent domain, real estate and title litigation, purchase and sale transactions, financing transactions, probate and estate planning, tort litigation, collection actions, contract disputes, and election litigation.

Mr. Buchman advises clients regarding compliance with the California and Federal Safe Drinking Water Acts and implementing regulations, including annual water quality reports and the California Department of Public Health's oversight of water suppliers' water quality monitoring and reporting requirements. He is expert in drafting a variety of agreements and very familiar with the issues facing groundwater rights holders.

Representative Matters

Montebello Mutual Land and Water Company - Mr. Buchman has served as the Company's General Counsel since 2000. The Company is a mutual water company founded in 1900 by a group of land developers and William Mulholland. It utilizes groundwater from the Central Basin adjudicated basin for 100% of its needs. Mr. Buchman advises the Company regarding all corporate and water company management issues, as well as, regarding the lawsuits concerning the Central Basin Judgment, including current efforts to amend the Judgment to allow for conjunctive use.

Rubio Cañon Land and Water Association - Rubio is a mutual water company in Altadena, California and utilizes both surface and groundwater sources. Mr. Buchman currently advises Rubio regarding corporate and shareholder issues, and water quality monitoring and reporting requirements.

Partner

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PRACTICE GROUPS

Litigation
Real Estate & Business Law

EDUCATION

J.D., Loyola Law School of
Los Angeles, California, 1990
B.A., University of California,
Los Angeles, 1986

ADMISSIONS

State Bar of California, 1990
United States Court of
Appeals for the Ninth Circuit
United States District Court
for the Central, Eastern,
Northern and Southern
Districts of California
United States Bankruptcy
Court for the Central, Eastern,
Northern, and Southern
Districts of California



J. Leah Castella

Ms. Castella specializes in public law litigation at both the trial court and appellate court levels. She has extensive experience litigating cases on behalf of public and private entities. Her areas of specialization include water rights, inverse condemnation and takings, eminent domain, writs and appeals. She also regularly litigates cases relating to environmental laws, Proposition 218, and American Indian law.

Ms. Castella counsels her clients to consider creative, cost-effective solutions to potential disputes. In the event that litigation ensues, Ms. Castella is an aggressive advocate with an exemplary track record of success at the demurrer, summary judgment, and appeal stages.

In addition to her general municipal litigation experience, Ms. Castella has extensive experience representing water utilities. For example, she successfully obtained summary judgment in a complex water rights case brought against a small dam operator in Napa County. Allegations included violations of the Public Trust Doctrine and Fish & Game Code section 5937.

Following the litigation, she worked extensively with the water operator to assist it in discharging its Public Trust obligations by preparing a Bypass Plan. Preparation of the plan included detailed hydrological and biological analysis of the watershed, which were used as the basis for bypass recommendations, which were ultimately adopted. Ms. Castella has also advised water utilities in their dealings with the DFG, responding to water rights claims, and interpreting water rights agreements.

Representative Matters

Successfully defeated a request for more than \$1.3 million in fees in a Public Trust Action brought against a City.

Obtained summary judgment in a lawsuit brought to force refunds of over a million dollars in sewer connection fees and successfully defeated appeal of the Court's summary judgment ruling.

Negotiated a fifty million dollar settlement for real estate developer in an action arising out of breach of a casino management agreement.

Partner

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PRACTICE GROUPS

Litigation

Public Law

EDUCATION

J.D., University of Texas
School of Law, with Honors,
1999

B.S., Philosophy, Lewis &
Clark College, 1995

ADMISSIONS

California State Bar, 2000

United States District Court
for the Central, Eastern,
Northern, and Southern
Districts of California



Matthew Visick

Mr. Visick provides advisory, litigation, and transactional services to public agencies, with an emphasis on environmental issues.

As deputy general counsel to several California cities, Mr. Visick advises clients on a broad range of general municipal law matters, including land use regulation, environmental review under CEQA, and regulatory compliance issues related to municipal water utilities.

Mr. Visick is also a solution-oriented litigator with a record of success in both trial and appellate courts. Recent victories include obtaining summary judgment for a Northern California client in a complex water rights dispute that involved allegations of riparian, appropriative, and pre-1914 appropriative rights. Working as part of a team with the opposing parties and state regulatory agency representatives, Mr. Visick guided the client to a cost-effective solution that ensured the continued viability of the client's water supply.

Prior to joining Burke, Mr. Visick assisted administrative law judges at the California Public Utilities Commission in their implementation of the state renewable portfolio standard and in the permitting of a water desalinization plant. He worked for a time in the California Assembly as a legislative intern responsible for guiding bills through the legislative process. Mr. Visick relies on this background to interpret laws, legislation and regulations for his clients and to advise them on administrative proceedings.

Mr. Visick is certified as a LEED Accredited Professional by the U.S. Green Building Council, and has worked with several clients to develop and implement green building codes and sustainability policies.

Representative Matters

- Act as the Deputy City Attorney for the City of Calistoga, which operates a municipal water utility supplied by both the City's municipal reservoir and water from the State Water Project.
- Advised client on necessary analysis of project in light of developing state regulations for analysis of greenhouse gases under CEQA.
- Successfully demurred to claim that agency's water supply project violated local initiative measure, obtaining dismissal at inception of lawsuit.

Associate

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PRACTICE GROUPS

Public Law

EDUCATION

J.D., University of California,
Hastings College of the Law,
2008

B.F.A., Wood/Furniture,
California College of the Arts,
2000

ADMISSIONS

California State Bar, 2008

Proposal for Professional Legal Services

Cota Cole, LLP

Cota Cole^{LLP}

A T T O R N E Y S

RESPONSE TO BEAUMONT BASIN WATERMASTER REQUEST FOR PROPOSALS TO PROVIDE LEGAL SERVICES



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Roseville, CA 95661
Phone 916-780-9009
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ROSEVILLE OFFICE:
DENNIS M. COTA
DEREK P. COLE
SCOTT E. HUBER
JENNIFER HARTMAN KING
CAROLYN J. FRANK
JONATHAN E. MILLER
WILLIAM R. GALSTAN
SEAN D. DE BURGH
STEPHANIE C. ALFORD

MADERA OFFICE:
DAVID A. PRENTICE
THOMAS E. EBERSOLE
GREGORY W. OLSON

REPLY TO:
☒ ROSEVILLE
☐ MADERA

Derek P. Cole
dcole@cotalawfirm.com

April 13, 2012

VIA OVERNIGHT DELIVERY

Eric Fraser, General Manager
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

Re: Response to Request for Proposals to Provide Professional Legal Services for the
Beaumont Basin Watermaster

Dear Mr. Fraser:

Cota Cole LLP is pleased to submit the enclosed proposal in response to the Request for Proposals identified above. Please accept this proposal as Cota Cole's commitment to provide legal services to the Watermaster under the terms and conditions described within our proposal. Cota Cole can provide the Watermaster expertise that encompasses decades of public law, litigation, and environmental experience. Cota Cole will be an outstanding legal resource for the Watermaster, and we look forward to introducing you to the many benefits of our representation.

As requested, fifteen bound copies of the proposal are enclosed, with delivery scheduled to comply with the April 16, 2012, deadline. The contents of the proposal include this letter (a copy of which may be found immediately preceding the table of contents), the 16 pages of the body of the proposal, a table of contents and the proposal cover sheet. Should you wish to receive a pdf of the proposal, please let me know and I will ensure one is emailed to you.

Questions regarding our proposal may be directed either to my attention or to Scott Huber's attention. We both operate out of our Roseville office (see below for address). My direct dial number is 916-787-7520, while Mr. Huber's is 916-787-7511. My email address is listed above, and Mr. Huber's email address is shuber@cotalawfirm.com.

Thank you for your consideration. Cota Cole looks forward to assisting the Watermaster in whatever manner is needed.

Sincerely,


Derek P. Cole
COTA COLE LLP

DAP:pm
Enclosures
{PM/00019802.2}

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Section 1. Firm Overview

A. Approach to Legal Services

Cota Cole LLP is a law firm founded on a commitment to excellence, and our comprehensive public and private law practice provides our clients with attorneys who have a proven record of success. Our experience has honed a distinct philosophy of service which is reflected in every aspect of our work. The hallmarks of that philosophy are responsiveness, communication, accuracy, and cost-effectiveness.

Cota Cole is a team of skilled public law attorneys with decades of combined experience in public entity representation. Our firm was established in 2007 by Dennis Cota and Derek Cole with the goal of providing first-rate, full-service representation to public clients. Since then, the firm has steadily grown, adding attorneys and staff with outstanding capabilities in their various fields. Cota Cole now has 12 attorneys in two offices and serves clients throughout the State of California.

Cota Cole not only provides excellent advice counsel services, but our attorneys have distinguished themselves as public agency litigators. We have handled all types of municipal litigation, obtaining successful results for public agency clients in court (bench and jury trials), before administrative agencies, during arbitration or mediation, and through pre-litigation settlement discussions. On litigation or similar ongoing matters, clients are kept apprised of substantive developments through regular status reports, with expense estimates generated on a case-by-case basis. The combination of our attorneys' qualifications, responsiveness, exceptional customer service, and cost-effectiveness makes Cota Cole the ideal legal resource.

Providing timely, accurate and effective legal counsel is Cota Cole's primary role. To fulfill that role, the attorneys at Cota Cole will maintain close communication with the Watermaster Committee and its staff, and strive to anticipate issues and challenges. In so doing, Cota Cole work to protect the Watermaster from adverse legal exposure. At Cota Cole we are mindful that it is the client's role to make policy, and it is our role to provide counsel, guidance, and creative solutions on how to implement that policy.

With our broad-ranged expertise, Cota Cole can not only provide general counsel legal services, but can also serve as a one-stop resource for all of the Watermaster's needs. Our firm provides litigation and special services at attractive rates because of the "economy of scale" achieved with one firm handling an agency's entire set of legal needs.

Cota Cole's timely, accurate, and cost-effective representation achieves superior results while providing personalized service builds long-term relationships with our clients. Communication is the foundation of any service provided to our clients. We develop excellent working relationships with our clients by working closely with designated individuals to efficiently and effectively respond to issues. All attorneys and paralegals on the team are easily accessible to clients, and our standing policy is that all calls and emails are returned promptly.

B. Location of Offices

Our two offices are located in Northern California (Roseville) and the Central Valley (Madera), although we service clients throughout the entire state. Current and former Southern California clients include a number located in Rancho Cucamonga, Fullerton, Ventura and San Diego. We offer clients well-reasoned and practical advice, solutions and representation, along with personalized attention to individual needs and goals. The firm's touchstone is responsive customer service, and the firm's customer service and communication with our clients is unsurpassed.

The Watermaster would be served out of both offices. Public agency general counsel services would be provided by Scott Huber, who works out of both the Roseville office, while environmental and litigation services would be provided by Roseville attorneys Derek Cole and Jennifer Hartman King. Ancillary services such as research and litigation support would be performed out of both offices as necessary, although the assignment of a "point person" and regular communication between Cota Cole personnel and Watermaster staff will ensure that duplicative work is not performed.

C. Firm Size and Staffing

In addition to the proposed general counsel and environmental and litigation counsel discussed below, Cota Cole is prepared to make the entire attorney and paralegal team available to respond to the Watermaster's needs. Supporting this legal team of 12 attorneys and two paralegals are three administrative assistants and two clerks.

D. CEQA and Other Environmental Issues

Cota Cole represents clients in all aspects of land use and environmental law. Our attorneys have significant experience litigating environmental disputes, defending clients against government enforcement actions, and handling real property issues and transactions, including purchase, sale and leasing of contaminated property, rights-of-way and easements, property disposal, and public improvements. Our scope of this experience includes advice and representation on site investigations and remedial actions, general plans and zoning, special use permits, the Subdivision Map Act, CEQA and NEPA, CERCLA, California Hazardous Substance Account Act, RCRA, Porter-Cologne, Proposition 65, air and water quality, water supply and rights, and utilities issues.

Cota Cole attorneys have experience advising public and private clients regarding compliance with hazardous materials laws and regulations, including those involving preparation of hazardous materials business plans and regulation by certified unified program agencies. Our attorneys have also litigated a variety of matters involving hazardous waste discharges, including claims under CERCLA and HSAA, RCRA, and other federal and state laws.

E. General Municipal Matters and Public Sector Clients

Cota Cole has a distinguished depth of experience in the full range of legal issues affecting public agencies. We routinely advise on matters involving public contracts, labor and employment, constitutional restrictions on local government, municipal finance, the California Public Records Act, municipal liability and immunities, and police department operations. We regularly advise boards and commissions, and have extensive experience in the myriad of laws governing public agency proceedings, such as the Ralph M. Brown Act, Political Reform Act, and restrictions on conflicts of interest.

Cota Cole has become a recognized provider of legal services to California public agencies. Presently, we serve as County Counsel for Trinity County, special counsel for Siskiyou County, City Attorney for the Cities of Gustine, Chowchilla, Oakley, Oroville, Sutter Creek and Taft, as District Counsel to the Monterey Peninsula Airport District, and as advice counsel to the Bethel Island Municipal Improvement District. We also represent the Counties of Madera, San Joaquin and San Benito and the City of Davis in a number of substantial litigation matters. Additional public sector clients have included the City of Fullerton, the Fresno County Sheriff, the Regional Council of Rural Counties, and the Amador Regional Transit System.

F. Public Records Act, Brown Act, and Conflicts of Interest

Cota Cole has extensive experience with the Public Records Act, Ralph M. Brown Act and Elections Code compliance. The firm has assisted newly formed public agencies establish policies and procedures to comply with the Ralph M. Brown Act from inception. We have

developed an interactive training seminar which we offer to educate our clients as to recent developments in the Ralph M. Brown Act and the legislatively or judicially enacted modifications. On behalf of our public agency clients, we regularly and routinely respond to requests made pursuant to the Public Records Act. Cota Cole also is very familiar with the FPPC requirements relating to conflicts of interest and will be able to advise regarding proper compliance.

G. Preparation of Ordinances, Resolutions, Orders and Written Memoranda

Cota Cole regularly prepares ordinances, resolutions and orders for its public agency clients. Whether requested by the public agency or suggested by counsel, we have drafted ordinances to assist our clients in pursuing their legislative policies, including code enforcement, land use, resolutions of necessity for eminent domain, and environmental and water-related issues. Cota Cole also regularly prepares advice memoranda, status letters, and other written information to advise and inform its public agency clients.

H. Personnel, Worker's Compensation, General Liability and Employee Relations

Our firm has exceptional breadth of experience in all aspects of personnel relations, including worker's compensation claims and general liability. We have advised our public agency clients on virtually all aspects of employee relations, including employee separation and discipline, *Skelly* hearings, and employee arbitrations. When necessary, we have also successfully defended public agencies in litigation filed by both current and former employees.

I. Communication With District

Close communication with agency clients and staff is a hallmark of representation by Cota Cole. Accurate, up-to-date information is made available through several procedures, including: (1) monthly written status reports on all pending litigation matters; (2) 24-hour access to both the general counsel and litigation counsel through cell phone and internet availability [contact information is distributed and updated regularly]; (3) assignment of a paralegal "point person" by which a paralegal maintains assignments and deadline lists and is aware of the current status of all pending matters; and (4) a standing policy that phone messages and emails are responded to the same day.

At Cota Cole we believe our role is to be a resource to municipalities and agency leaders. In working with the District, we will be prepared to address the legal issues and provide counsel on achieving the District's objectives. While providing answers and alternatives, we will not seek to direct policy or allow our participation to hinder or impede the Board's tasks or objectives. Our proactive approach is always mindful of the direction and boundaries established by the Board, and our close working relationship with staff will serve the District well by allowing for the proper cross-flow of information.

J. Reporting and Tracking

Each case handled by Cota Cole is assigned a separate number for purposes of tracking legal services and expenses. At the inception of any litigation matter, a preliminary evaluation is prepared summarizing available facts, liability analysis, recommended handling and anticipated expenses through trial. As desired by the client, budgets may be established that include expense thresholds for pleadings, discovery, motion practice and trial of litigation matters.

As to all matters (non-litigation and litigation), Cota Cole attorneys record daily the description of services provided and the time dedicated to those services. This electronic record is reviewed monthly by both lead counsel and the Managing Partner. Monthly expenses, as well as cumulative expenditures to date, are reviewed regularly and reported to the client. To the extent unexpected expenses are brought on by discovery or motions initiated by an opposing party, the client is advised immediately. An extraordinary expense (such as a summary judgment motion)

is not undertaken without advance client approval. Regular communication with the District and staff will be utilized to assure that expenses remain within expected thresholds.

Litigation expenses are managed both through standing policies and individual case evaluations. Standing policies include utilizing associates and paralegals where appropriate to limit costs. Deposition summaries, redundant or unnecessary discovery, or marginally productive motions are not undertaken. Individual cases are evaluated based on the amount at issue and the value to the client.

K. Legal Developments

As City Attorney for multiple cities and as legal counsel for public entities throughout California, Cota Cole keeps apprised of legal developments and issues relating to California municipalities. We subscribe to the Daily Journal (hardcopy and electronic format) and receive information via Westlaw RSS feeds, counsel list serves and certain legal blogs. When specific rulings or other events occur that may have relevancy to our clients, that information is disseminated firmwide. Our attorneys also share any pertinent information with their clients. And when an event occurs within one municipality that may have significance for another, our attorneys, while maintaining privilege, will provide sufficient detail to alert others within the firm who might be faced with similar situations. Ongoing discussions regarding proper handling of issues are common, as are communications with clients regarding any potential issues and their possible solutions.

Through legal updates provided at no additional charge to our municipal clients, we keep agency clients and staff up to date on the changing legal circumstances impacting municipalities. Through active and ongoing communications with executives and staff, weekly office hours, and knowledge of developments and issues within the community, Cota Cole's attorneys are able to anticipate issues and propose responses, oftentimes avoiding unnecessary litigation. No-cost training workshops and legal updates also serve to keep agency leaders apprised of their obligations and sensitive to issues and responsibilities before problems arise. Cota Cole has successfully used these approaches with other public law clients, and would be pleased to implement such programs for the Watermaster.

L. Working With Watermaster Committee and Staff

Close working relationships, consistent with the direction of the Board, will be maintained with key staff. It has been our experience at Cota Cole that such close working relationships are a product of active communication, responsiveness and efficiency. Understanding goals and objectives, and providing the legal resources to appropriately achieve such goals, make for both a close and successful partnership. Recognizing the value of that relationship, the firm strives not only to meet but exceed expectations.

As described above, communication access, regular status reports, office hours and proactive responses will further underscore a strong working relationship with the Board and staff.

M. Evaluating Litigation Services

Each litigation matter is evaluated at the inception and throughout the pendency of the case. This ongoing evaluation process includes a review of anticipated risk/exposure, projected expenses, and likelihood of a favorable outcome. If at any point in the course of litigation the risk and expense favor pursuit of settlement, the Watermaster will be immediately advised via a written evaluation and recommendation. It should be noted that at Cota Cole we evaluate "costs" as including factors other than just financial impact on the client, as we take into consideration issues of precedent, policy, politics, employee morale, and other factors which the client should weigh before deciding to pursue ongoing litigation or settlement. Once presented with the liability/cost evaluation, the firm is prepared to follow the Watermaster Committee's direction.

Tracking and management of litigation costs, budgets and preauthorization for litigation expenses will serve to limit litigation costs wherever possible. As a municipal law firm, Cota Cole is extremely sensitive to the economic challenges facing our public clients, and we are committed to working closely with the Watermaster to avoid litigation wherever possible. Our approach serve clients well by controlling expenses as much as possible while continuing to monitor situations for any issues which might affect the client on a long-term basis.

N. Use of Outside Counsel

One of the benefits of retaining Cota Cole as agency general counsel is this firm's depth of expertise and municipal law and litigation experience, including exceptional expertise in a wide range of environmental matters. There should be little need to employ outside counsel which would add unnecessary expense to the Watermaster's legal services. However, the firm continually reviews services and, where appropriate, will make a recommendation as to whether outside counsel could more economically or efficiently provide representation in unique or highly specialized areas.

As noted above, Cota Cole is aware of the economic challenges facing all municipalities and agencies at this time. As with any case evaluation, fees would be one aspect of the determination of which outside counsel, if any, would be appropriate.

O. Firm's Professional Development Practices

Cota Cole is committed to providing exceptional representation through skilled and experienced professionals. That commitment begins with recruiting attorneys and paralegals who have distinguished themselves academically and in their practice. Many of Cota Cole's attorneys are recipients of the prestigious Order of the Coif Award, and were ranked in the top 10 percent of their law school classes. That commitment continues with the firm assuming all expenses for continuing education and actively coordinating regular training on issues directly affecting municipalities. Monthly meetings are held with all attorneys and paralegals to examine case status, review developments in the law, and discuss issues pertaining to Cota Cole clients. In addition, many of the firm's attorneys have taken teaching roles in private and public institutions on various areas of law in which they have recognized expertise or are acknowledged as experts.

P. Communication Devices and Software

The firm utilizes all normal avenues of communication, including phone, fax, cell phones, email, voice mail, conference calls, videoconferencing, delivery services, and the U.S. postal system.

The firm maintains a print library of essential titles in addition to a comprehensive Westlaw account that includes full access to California and federal databases. Firm computers are equipped with the full suite of Microsoft Office software. The firm also uses Timeslips for all billing purposes; the WorldDox document management program; and Compulaw's Vision software for docketing and calendaring of all litigation matters. The firm has several printers as well as high-speed copiers for large print jobs (equipped with scanning capabilities). As part of our litigation practice, our office staff regularly handles large print/scan jobs, creating CDs or DVDs and searchable large document productions in portable document file format.

Section 2. Qualifications of Proposed Attorneys

The key attorneys our firm proposes to provide public agency general counsel and related services to the Beaumont Basin Watermaster are identified in the following table. Mr. Huber is identified as the main contact for the Watermaster's legal needs, and his contact information may be found in the cover letter to this proposal.

| <i>Attorney</i> | <i>Proposed Capacity</i> |
|------------------------|---------------------------------------|
| Scott E. Huber | General Legal Counsel |
| Jennifer Hartman King | Environmental and Litigation Attorney |
| Derek P. Cole | Environmental and Litigation Attorney |

Below is a specific response to the qualifications enumerated in Section 4 of the RFP. A general biography for each attorney named above is also provided.

- All named attorneys are able to represent the Beaumont Basin Watermaster in the Riverside Superior Court.
- The attorneys named above have reviewed and are familiar with the Beaumont Basin Judgment.
- Attorney Jennifer Hartman King has extensive knowledge of the California Water Code, along with water law and groundwater expertise. She has previously adjudicated water rights issues.
- Attorneys Jennifer Hartman King and Derek Cole have knowledge of and expertise with Safe Drinking Water Act standards and associated water rights.
- All attorneys listed are members in good standing with the State Bar.
- All attorneys listed have extensive knowledge of and expertise with Brown Act compliance.
- All attorneys listed have extensive knowledge of and expertise with the Public Records Act and any compliance issues related thereto.
- All attorneys listed are familiar with the Conflict of Interest Code and how to appropriately apply and comply with it.
- Attorney Jennifer Hartman King has expertise relating to water transfer agreements and any approvals required thereunder.

General Legal Counsel Services

Scott E. Huber (Bar No. 227196, admitted 2003). Mr. Huber specializes in public law and real estate matters. Mr. Huber has represented public agencies on both public law issues and general municipal issues, including the Brown Act, ethics requirements, property taxation, contracts, labor and employment, civil rights, law enforcement, land use, code enforcement, unlawful detainer, and eminent domain. Mr. Huber has also represented banks and mortgage lenders in various matters, including compliance with the Real Estate Settlement Procedures Act (RESPA) as well as civil prosecution of mortgage fraud. Mr. Huber has successfully litigated numerous complex business cases involving allegations of unfair competition, breach of contract, fraud, and other torts. Mr. Huber also has significant experience in Petitions for Receivership to abate public nuisances, Brown Act and Public Records Act compliance.

While at his former firm, Mr. Huber represented Sacramento Housing and Redevelopment Agency in its condemnation actions related to the Redevelopment of the K Street Mall. Mr. Huber prepared complaints in eminent domain to acquire various parcels in the 700 and 800

blocks of K Street, including motions for pre-condemnation possession for SHRA to acquire and control the properties prior to trial.

Mr. Huber is currently the City Attorney for the City of Oroville, Assistant City Attorney for the City of Sutter Creek, and Assistant County Counsel for Trinity County. In those positions, he advises clients on the full scope of municipal law issues.

Mr. Huber is a board member of the Roseville Joint Union High School District. Mr. Huber previously served as a board member of the Roseville City School District, and formerly taught as adjunct faculty at University of the Pacific, McGeorge School of Law, teaching in the Appellate Advocacy program.

Education: Mr. Huber received his Juris Doctorate from the University of the Pacific, McGeorge School of Law, with a Certificate of Concentration in Governmental Affairs. While in law school, he served as a staff writer for the California Initiative Review and co-authored an article on Same-Day Voter Registration. Mr. Huber attended Brigham Young University and graduated with a Bachelor of Science degree in Psychology.

Environmental and Litigation Counsel Services

Our firm can also provide water rights, land use, environmental, mining, water law, real estate, property tax, civil rights, and municipal tort defense specialists. All Cota Cole attorneys will be available to the Watermaster on an as-needed basis. Attorneys at Cota Cole who might provide such services include:

Jennifer Hartman King (Bar No. 211313, admitted 2000). Ms. Hartman King's practice focuses on environmental law and includes broad experience representing public and private entities in the areas of state and federal court litigation, transactional matters, compliance counseling and administrative enforcement defense.

Ms. Hartman King represents clients in all aspects of environmental litigation, with particular emphasis on cost recovery and contribution actions under the federal and state Superfund statutes (aka CERCLA and HSAA). Ms. Hartman King currently serves as special counsel to the City of Davis in two complex, multiparty environmental litigation cases involving these statutes. She also has litigated water rights disputes, is currently handling an alleged water rights permitting violation before the State Water Resources Control Board, and frequently handles matters involving other federal and state environmental laws, including RCRA, Porter-Cologne and Proposition 65.

Ms. Hartman King represents and advises clients in real estate transactions involving contaminated property, including purchase and sale agreements, leasing, environmental due diligence, disclosures, deed restrictions and environmental insurance. She has successfully counseled clients regarding strategic deal structuring to minimize environmental liabilities.

Ms. Hartman King also has significant experience working with various government entities to negotiate mutually acceptable resolutions to private party environmental violations. She routinely represents clients before the Federal Environmental Protection Agency, California Environmental Protection Agency, California Department of Toxic Substances Control, State Water Resources Control Board, Regional Water Quality Control Boards, Department of Fish and Game, Department of Pesticide Regulation and others. Her specialties include site investigation and remediation, underground storage tank issues, pesticide product registration/violations, emergency spill reporting, permitting citations, and environmental criminal defense.

In 2010, Ms. Hartman King was appointed by the California State Water Resources Control Board to serve on the Underground Storage Tank (UST) Cleanup Program Task Force. In this roll, Ms. Hartman King worked closely with other selected leaders in the environmental field to advise the Water Board on strategies for improving the UST Cleanup Program. In the process,

she collaboratively devised, negotiated and prepared proposed resolutions for the Water Board that clarified and streamlined the Cleanup Program. The Water Board adopted several of these resolutions, thereby affecting the way UST sites are investigated, remediated and ultimately closed.

In addition to representing and advising public entities during her years in private practice, Ms. Hartman King also has served at the highest level of State Government as Deputy Legal Affairs Secretary to Governor Gray Davis. In her role with the Davis administration, she provided legal advice and assistance to the Governor and his staff on a host of issues facing the State. She oversaw litigation challenging various decisions made by the Governor, including several high profile cases. She also served as the primary liaison in the Governor's Legal Affairs Office for several state agencies and departments and was responsible for reviewing their significant legal and litigation issues.

Ms. Hartman King began her career as an environmental attorney in the Los Angeles Office of Bingham McCutchen LLP, one of the fifty largest law firms in California. She also practiced environmental law with the largest law firm in Sacramento before joining Cota Cole.

Education: Ms. Hartman King graduated from UCLA School of Law in 2000 and earned her B.A. from the University of California, Davis, *magna cum laude*, in 1996.

Derek P. Cole (Bar No. 204250, admitted 1999). Mr. Cole has extensive public law experience. Mr. Cole serves as County Counsel for Trinity County and as City Attorney of the Cities of Oakley and Sutter Creek. He is experienced in all matters affecting California public agencies, ranging from such basic issues such as the proper handling of public records requests to complex matters such as franchise agreements and large land use applications. Mr. Cole's representation of public agencies also includes experience with civil rights, labor and employment, code enforcement, and inverse condemnation issues.

Mr. Cole is especially skilled in land use and environmental law and regulations, having handled numerous matters pertaining to general plans, zoning, the California Environmental Quality Act (CEQA), air and water quality, water rights and the Endangered Species Act. Mr. Cole has significant experience in CERCLA, RCRA, California's Porter-Cologne Act, and related water quality regulations, as well as a number of Williamson Act issues. Mr. Cole also has special expertise in Propositions 13, 62, and 218, and other municipal finance matters.

Mr. Cole co-founded Cota Cole & Associates (reorganized as Cota Cole LLP) with Dennis Cota in January 2007. Between 2004 and 2007, Mr. Cole worked in the Sacramento office of the statewide law firm, Best Best & Krieger LLP, where his practice focused on municipal and environmental litigation. Between 1999 and 2004, Mr. Cole was an associate attorney at Taylor & Wiley, a Sacramento firm, where his practice focused on land use entitlements and environmental compliance.

Education: Mr. Cole graduated from the University of the Pacific, McGeorge School of Law. At McGeorge, Mr. Cole was admitted to the Order of the Coif, Order of Barristers, and Traynor Honor Society. Prior to attending law school, he graduated from the University of California-Santa Barbara in 1996 with a B.A. in Law and Society.

Honors and Affiliations: Mr. Cole is a published author. His book, *California Surface Mining Law*, was released by Solano Press Books in 2009. Between 2003 and 2005, Mr. Cole taught legal writing and research to first-year students at McGeorge School of Law. From 1999-2003, he taught Appellate Advocacy at McGeorge. Mr. Cole has been awarded Order of the Coif and Order of Barristers, and is a member of the Traynor Honor Society.

Section 3. References

| PROFESSIONAL REFERENCE CONTACT INFORMATION | | |
|--|----------------------------|--|
| CONTACT AND ADDRESS | PHONE NUMBER | PROJECT DESCRIPTION |
| Harold Duffey City Administrator City of Oroville 1735 Montgomery Street Oroville, CA 95965 | (530) 538-2535 | CEQA project review and defense of litigation Handling of personnel matters |
| Barbara Thompson Assistant County Counsel County of San Benito 481 4th Street, 2nd Floor Hollister, CA 95023 | (831) 636-4040, ext. 17 | CEQA, Proposition 218, and municipal litigation |
| Eric Fleming County Administrative Officer County of Madera 200 West 4th Street Madera, CA 93637 | (559) 675-7703 | Employment litigation defense |
| J. Mark Myles Assistant County Counsel Office of San Joaquin County Counsel 44 N. San Joaquin Street, Suite 679 Stockton, CA 95202 | (209) 568-2980 | Defense of non-exposure litigation |
| Wendy Tyler County Administrative Officer County of Trinity 11 Court Street Weaverville, CA 96093 | (530) 623-1382 | Handling of personnel and municipal matters |
| Roger Lutz, Owner Oakville Pump Services, Inc. PO Box 435 Oakville, CA 94562 | (707) 944-2471 | Representation before SWRCB re alleged water rights permitting violations |
| Thomas Greer General Manager Monterey Peninsula Airport District 200 Fred Kane Drive, Suite 200 Monterey, CA 93940-5353 | (831) 648-7000 | Municipal and environmental litigation |

Section 4. Clients and Potential Conflicts of Interest

The firm has detailed conflict-of-interest check procedures, which include computerized and physical cross-referencing and searches. Cota Cole is not aware of any potential, apparent, or actual conflict of interest with respect to its ability to represent the District. Cota Cole is likewise not aware of any client, past or present, who would pose a conflict of interest with the District.

A conflict check is run each time a new matter arises, as well as when additional parties become involved in an ongoing matter. Cota Cole has already run the agencies listed within the RFQ, as well as any known individuals associated with the District, through its conflicts check procedure and no conflicts have been found.

A. Interactions With Named Public Agencies

No member of Cota Cole has had any involvement with any of the agencies listed on pages 4 and 5 of the RFP, and no known conflicts exist.

B. Current Public Agency Clients

City of Chowchilla. City Attorney (Thomas Ebersole). No conflicts known or expected.

City of Gustine. City Attorney (Thomas Ebersole). No conflicts known or expected.

City of Oakley. City Attorney (Derek Cole). No conflicts known or expected.

City of Oroville. City Attorney (Scott Huber). No conflicts known or expected.

City of Sutter Creek. City Attorney (Derek Cole). No conflicts known or expected.

City of Taft. City Attorney (David Prentice). No conflicts known or expected.

Trinity County. County Counsel (Derek Cole). No conflicts known or expected.

Bethel Island Municipal Improvement District. Advice Counsel (Derek Cole). No conflicts known or expected.

Monterey Peninsula Airport District. General Counsel (David Prentice). No conflicts known or expected.

In addition, Cota Cole provides outside litigation or special counsel services for Madera County, San Joaquin County, San Benito County, Siskiyou County, and the City of Davis. No conflicts are known or expected.

C. Representation Within Last Five Years of Clients Adverse to Public Entities

Cota Cole previously represented the County of San Joaquin against the City of Stockton in multiple matters relating to emergency dispatch and advanced life support services. These matters were closed in the fall of 2010.

Cota Cole also represented the Madera County Assessor in a successful action against the County's Assessment Appeal Board which resulted in the matter being remanded to the AAB.

Cota Cole represented a private client in a prior action against the County of Ventura regarding a permitting matter. It also represents a real party in interest (project applicant) in a CEQA lawsuit brought by the City of Petaluma.

None of the above-referenced actions creates any potential conflict with the Watermaster.

Section 5. Proposed Fee Schedule

A. Non-Litigation General Counsel Services

When selected as Watermaster legal counsel, Cota Cole will provide all services listed below:

- Advise on enforcement matters relating to the *San Timoteo Watershed Management Authority v. City of Banning, et al.*, Riverside County Superior Court Case No. RIC 389197. (Court appearances and further litigation arising as a result of any enforcement actions would be covered under Section B below.)
- Advise on conjunctive use and water storage rights.
- Provide advice, research and coordination with entities and agencies involved with the Watermaster Committee.
- Advise the Watermaster on municipal government legal matters, including the Brown Act and parliamentary procedures for running meetings.
- Attend Watermaster Committee meetings and other meetings as assigned.
- Attend staff meetings as requested by designated staff (such staff meetings may be via webex or similar online interactive format).
- Cooperate with, coordinate and manage the services and costs of all outside legal counsel as approved and directed by the Board or designated staff.
- Provide legal advice to the Watermaster Committee and staff.
- Prepare and/or review all ordinances, resolutions, orders, agreements, contracts, certificates, deeds, leases, letters, memoranda, and other communications as required.
- Provide written updates on new state or federal legislation or judicial decisions impacting the Watermaster and propose suggested actions or changes in operations or procedures to assure compliance.
- Review current documents, policies and forms to ensure compliance with current laws.
- Assist with the preparation of amendments to the Rules, Regulations, Policies and Procedures associated with judgment implementation.
- Research and submit legal opinions on agency or other legal matters as requested by the Watermaster or designated staff, including, among others, water transfers, water rights and storage issues, water quality, environmental and hazardous materials matters, habitat restoration, CEQA, land use, emergency spill reporting, permitting violations, procurement issues, public entity funding, construction law and disabled access, and the planning, approval and implementation or management of infrastructure projects.
- Provide guidance on personnel matters, including policies and procedures affecting employees, as well as employee disciplinary issues and grievances.
- Perform legal work pertaining to land use issues including, but not limited to, property acquisitions, property disposals, public improvements, easements, dedications and right-of-way, and environmental due diligence.
- Advise regarding compliance with the Political Reform Act and other ethics statutes, regulations, and rules, and serve as the Watermaster ethics officer.
- Draft and review contracts, deeds, leases or other agreements.

- Prepare any other documentation required, including notices, staff reports, orders, forms, declarations, and certificates.
- Advise regarding tort claims and liability exposure, and perform risk analyses.
- Promptly return all calls and emails.
- Ensure timely compliance with requests for public records.

The non-litigation services would be provided on the following terms, or such alternate fee arrangements as agreed to between the District and Cota Cole following further negotiation.

| General Counsel Rates | |
|--|-------------------------------|
| Lead Attorney Rate (more than 5 years' experience): | \$250/hour |
| Associate Attorney Rate (less than 5 years' experience): | \$225/hour |
| Paralegals: | \$150/hour |
| Services Included: | All services enumerated above |

We would bill to recover certain costs associated with our non-routine services or advanced on the District's behalf. These costs include¹:

| | |
|--|--|
| Duplication (for 50 copies or more) | \$0.25/page |
| Vehicle travel (for non-standard trips originating from the Beaumont Basin Watermaster headquarters) | Applicable IRS rate per mile x number of miles |
| Extraordinary postage or overnight delivery costs | Actual Cost |

B. Litigation and Environmental Counsel Services

Should litigation services be required by the District, we propose the fee structure noted here.

| Litigation and Environmental Counsel Rates | |
|--|--|
| Lead Attorney Rate (more than 5 years' experience): | \$250/hour |
| Associate Attorney Rate (less than 5 years' experience): | \$225/hour |
| Paralegals: | \$150/hour |
| Services Included: | The handling of any case, action, or proceeding in any judicial or administrative tribunal |

Hourly rates would be charged for customary attorney and paralegal services related to litigation and environmental counseling, which include:

- Preparation for and attendance at court hearings, including with regard to the representation of Beaumont Basin Watermaster in the Riverside Superior Court relating to any judgment proceedings;
- Drafting of pleadings, motions, memoranda, court forms, and other litigation documents;
- Research and analysis of claims, defenses, and remedies;
- Drafting and responding to discovery pleadings;

¹ The charges listed are accurate, but the firm reserves the right to implement in the future an administrative fee or surcharge to cover fax, phone and copy charges which would be in lieu of and not in addition to the charges noted here and in the section below.

- Coordinating, reviewing, and summarizing discovery and document productions;
- Depositions, including witness preparation and preparation of post-deposition summaries;
- Preparation of administrative records;
- Meetings with client representatives, opposing counsel, and others concerning the litigation;
- Trial and trial preparation;
- Research, analysis and advice concerning compliance with and enforcement of environmental laws; and
- Other tasks necessary to the successful completion of the litigation.

In addition to the duplication and other charges enumerated above, any costs incurred in the course of litigation would also be invoiced monthly. The following list of litigation charges is included by way of example:

| | |
|--|---|
| Court filing fees | Actual Cost |
| Attorney services (includes service of process fees, arbitrators, and mediators) | Actual Cost |
| Messenger services | Actual Cost |
| Westlaw research outside of our prepaid service fee | Prorated so the Watermaster would pay its proportionate share |
| Data analysis subscription fees associated with CaseLogistix or related software | Prorated so the Watermaster would pay its proportionate share |
| FedEx, OnTrac Overnight, or other one-day delivery services | Actual Cost |
| Reasonable travel expenses (mileage) | Applicable IRS rate per mile x number of miles |
| Parking and toll fees | Actual Cost |
| Duplication/reproduction fees (for 50 copies or more) | Actual Cost if performed by outside service; \$0.25 if performed in-house |
| Any other expense not listed above that becomes necessary for the successful resolution of a client matter | Actual Cost |

The proposed fee structure and hourly rates are subject to further negotiation or revision, depending on the Watermaster's needs.

Section 6. Additional Information

A. Insurance

Cota Cole maintains professional errors and omissions coverage through Lloyd's of London in the amount of \$5,000,000 per occurrence and in the aggregate. Cota Cole maintains Comprehensive General Liability ("CGL") coverage in the amount of \$1,000,000 per occurrence of bodily injury, personal injury, or property damage; automotive liability coverage in the same amount (coverage for which is provided under the firm's CGL policy); and workers' compensation liability coverage in the amount \$1,000,000 per accident. The firm will maintain coverage at or above these amounts for the duration of legal services it provides the District. Any required insurance limits and riders will be in place prior to the start of work for the District.

B. Equal Opportunity Employer

Cota Cole is an equal opportunity employer that complies with all federal, state and municipal laws and regulations, including the Americans With Disabilities Act.

C. Drug-Free Workplace

Cota Cole complies with all requirements of the Drug-Free Workplace Act of 1990.

D. Discipline, Complaints, and Malpractice Claims

Cota Cole is proud to state that all its attorneys are in good standing with the California State Bar. No Cota Cole attorney has any record of discipline with the California State Bar or with any other federal, state, or local bar association, nor has any attorney in the firm been a party to a malpractice claim.

Section 7. Statement of Offer

Cota Cole acknowledges that this Proposal is a firm offer to provide the services on the terms noted within. This offer is good for a period of not less than ninety (90) days from the date such proposals are due (April 16, 2012).

DATED: April 13, 2012

COTA COLE LLP



Derek P. Cole, Partner

Proposal for Professional Legal Services

Graves & King, LLP



April 13, 2012

3610 Fourteenth Street
Second Floor
Riverside, California 92501

Direct all mail to:
Post Office Box 1548
Riverside, California 92502

Telephone: (951)680-0100
Facsimile: (951)680-0700

William J. King (1947-2005)
Patrick L. Graves*
Harvey W. Wimer III*
Michael G. Martin*
Robert C. Mizar
Michael D. Sargent

J.E. Holmes III (Of Counsel)
Robert D. Ricks
Dennis J. Mahoney
Roxanne Laura Crockett
Szu Pei Lu-Yang
Nicole C. Morgan
Christopher A. McIntire
Learned P. Espinosa
K. Fredric Willis

Office Administrator
Victor R. Johnson

*A Professional Law Corporation

Los Angeles/Ventura/Kern
500 N. Brand Boulevard
Suite 1850
Glendale, California 91203
Telephone: (818)551-1112
Facsimile: (818)551-0425

The Bay Area / Silicon Valley
1331 N. California Boulevard
Suite 200
Walnut Creek, California 94596
Telephone: (925)926-0452
Facsimile: (925)926-0454

A LIMITED

LIABILITY

PARTNERSHIP

Eric Fraser, General Manager
Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

Re: Beaumont Basin Watermaster
RFP - Professional Legal Services

Dear Mr. Fraser:

Graves & King LLP is pleased to provide the following information in response to the Beaumont Basin Watermaster's Request for Proposal (RFP) to provide professional legal services.

Description of Firm:

Graves & King LLP (the Firm) was founded in Upland, California in 1993. The Firm has been based in Riverside, California since 1998. The Firm was established on the premise that a small firm of experienced legal professionals could provide its clients with more personalized and cost-effective services while achieving outstanding results. The Firm continually strives to achieve this goal, and as a result, has remained a solid presence in the Inland Empire legal community for nearly 20 years. The Firm is comprised of 14 attorneys and 3 paralegal professionals.

If accepted, services will be provided by the Firm's managing partner, Harvey W. Wimer III, and senior associate attorney, Szu Pei Lu-Yang.

Harvey W. Wimer III

Mr. Wimer is a member of the California State Bar in good standing (Bar No. 166326.) Mr. Wimer was raised in Cherry Valley, California and attended schools in both Banning and Beaumont, before graduating from Beaumont High School in 1981. Mr. Wimer joined the Firm in 1994 and has been the Firm's Managing Partner since 2004. Since joining the Firm, the majority of Mr. Wimer's practice has involved the legal representation of public agencies. His practice includes representation at the trial court and appellate court levels as well as before the California Supreme Court. The Firm's public agency clients include the County of San Bernardino, the San

Eric Fraser
Beaumont Cherry Valley Water District
Re: RFP - Professional Legal Services
April 13, 2012
Page 2 of 5

Bernardino County Flood Control District, the Eastern Municipal Water District, the City of Victorville, the City of Rancho Cucamonga, the Public Entity Risk Management Authority as well as many others.

In addition, in 2009, Mr. Wimer was appointed to the Municipal Utilities/Public Works Commission for the City of Redlands and has served in that role since that date. Mr. Wimer has also been appointed as Administrative Hearing Judge for the City of Rancho Cucamonga.

A copy of Mr. Wimer's CV is attached hereto has Exhibit A.

Szu Pei Lu-Yang

Ms. Lu-Yang is a member of the California State Bar in good standing (Bar No. 231397) Ms. Lu-Yang joined the Firm in 2005. In her role as a Senior Associate with the Firm, Ms. Lu-Yang has assisted Mr. Wimer in providing legal services to a variety of public agencies. In addition, Ms. Lu-Yang has served as a Director of the Rowland Water District since 2005. She is presently the Vice President of the Board. As a Director of the Rowland Water District, Ms. Lu-Yang has been personally involved with issues dealing with water quality, water production and delivery agreements, the acquisition of alternative potable water sources, and water transfer agreements. Ms. Lu-Yang is also the District's representative to Three Valleys Municipal Water District and regularly attends those board meetings dealing with water quality issues and current and proposed water legislation.

A copy of Ms. Lu-Yang's CV is attached hereto has Exhibit B.

Additional information about Mr. Wimer, Ms. Lu-Yang, and the Firm can be found at www.GravesandKing.com.

Scope of Services:

The Firm is confident it has the experience and resources to fulfill the Beaumont Basin Watermaster's needs for legal services. The Firm proposes to provide the following services to the Beaumont Basin Watermaster, on an as-needed basis:

- To provide advice and consultations on matters concerning the enforcement of the Superior Court Case No. RIC 389197 "*San Timoteo Watershed Management Authority v. City of Banning, et al.*"

Eric Fraser
Beaumont Cherry Valley Water District
Re: RFP - Professional Legal Services
April 13, 2012
Page 3 of 5

- To attend Watermaster Committee meetings and advise on matters arising from same as directed by the committee.
- To interpret laws, legislation, ruling and regulations for the Watermaster.
- To provide advice on conjunctive use and storage rights.
- To assist in the preparation of amendments to the Rules, Regulations, Policies and Procedures associated with the implementation of the Judgment.
- Represent the Watermaster in administrative and legal proceedings related to enforcement of the Judgment.
- To serve as the Watermaster's ethics officer.
- To provide any other legal services as directed by the Watermaster Committee.

Key Contact Person:

The key contact person for the Firm is as follows:

Harvey W. Wimer III
Graves & King LLP
P.O. Box 1548
Riverside, CA 92502
hwimer@gravesandking.com
(951) 680-0100 phone
(951) 680-0700 fax

References:

Doug Robertson
City Manager
City of Victorville
14343 Civic Drive
P.O. Box 5001
Victorville, CA 92393
(760) 955-5035

Eric Fraser
Beaumont Cherry Valley Water District
Re: RFP - Professional Legal Services
April 13, 2012
Page 4 of 5

Duane Burk
Director of Public Works
City of Banning
99 East Hoffman Street
P.O. Box 998
Banning, CA 92220
(951) 922-3130

Charles Bachmann
Assistant General Manager, Engineering
Eastern Municipal Water District
2270 Trumble Road
P.O. Box 8300
Perris, CA 92572
(951) 928-3777

Michael Markel, Esq.
Principal Assistant County Counsel
Office of the County Counsel
385 N. Arrowhead Avenue, Third Floor
San Bernardino, CA
(909) 387-5455

Scott Ellerbrock
General Manager
Public Entity Risk Management Authority
36-951 Cook Street
Suite 101
Palm Desert, CA 92211
(760) 360-4966

Billing Rates:

The Firm proposes to provide the legal services outlined in the Scope of Work at the following rates:

| | |
|------------|-----------------------------------|
| \$200/hour | Partner/Senior Associate Attorney |
| \$180/hour | Associate Attorney |
| \$ 95/hour | Paralegal |

Eric Fraser
Beaumont Cherry Valley Water District
Re: RFP - Professional Legal Services
April 13, 2012
Page 5 of 5

The Firm will also bill for expenses (travel, mileage, legal resources, etc.) incurred on behalf of the Watermaster.

Conflict of Interest:

The Firm has no conflict of interest with any of the five Committee Agencies, and as a result, would not have to recuse itself.

The Firm has represented the City of Banning as a defendant in a limited number of lawsuits assigned to the Firm by the City's liability risk management pool, PERMA. The Firm does not believe its representation of the City of Banning in those instances would create any conflicts of interest pertaining to its role as counsel to the Watermaster.

Terms and Conditions:

In submitting the attached proposal, Graves & King LLP agrees to be bound by Section 7, Terms and Conditions set for the RFP, including, but not limited to, subsection 4, paragraphs (a) through (d) and subsection 5.

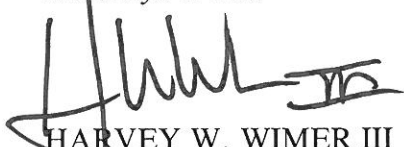
Statement of Offer:

The foregoing proposal of the Firm is a firm offer which shall remain open for a period of not less than 90 days.

Thank you for your consideration of this proposal and please feel free to contact the undersigned should you have any questions or concerns regarding the foregoing.

Very truly yours,

GRAVES & KING LLP
Attorneys at Law



HARVEY W. WIMER III
HWW:acc

Enclosures

J:\WP_FILES\PLG-TEAM\hww\Beaumont Basin Watermaster\BBWproposal.wpd

GRAVES & KING

A Limited Liability Partnership

3610 Fourteenth Street, Second Floor
Riverside, California 92501
Telephone: (951) 680-0100
Facsimile: (951) 680-0700



Partner of the Firm

Harvey W. Wimer III
hwimer@gravesandking.com

Education

- Juris Doctor, University of La Verne College of Law 1993
 - Student of Distinction, graduating class of 1993
 - Law Review, Editor-in-Chief 1992-1993
 - Law Review, Staff Writer 1991-1992
- Bachelor of Arts, Communications, California State University, Fullerton CA 1989

Bar Membership

- Supreme Court of the State of California
- Supreme Court of the United States
- United States District Court, Central District of California

Professional Affiliations

- State Bar of California
- Riverside County Bar Association
- San Bernardino County Barristers Association, Founding Director
- Association of Southern California Defense Counsel
- 2002-Present, Court appointed arbitrator/mediator, Riverside Superior Court
- 2002-Present, Court appointed arbitrator/mediator, San Bernardino Superior Court

Professional Experience

- 1999-Present, Partner, Graves & King LLP
- 1994-1999, Associate Attorney, Graves & King LLP
- 2009-Present, Administrative Hearing Judge, City of Rancho Cucamonga
- 2009-Present, Commissioner, City of Redlands, Public Works and Municipal Utility Commission

GRAVES & KING

A Limited Liability Partnership

3610 Fourteenth Street, Second Floor
Riverside, California 92501
Telephone: (951) 680-0100
Facsimile: (951) 680-0700

Senior Associate of the Firm

Szu Pei Lu-Yang
splu@gravesandking.com



Education

- Juris Doctor, Loyola Law School 2003
- Loyola Entertainment Law Review, Writer 2002-2003
- Bachelor of Arts, Business Administration, University of California 2000
- Graduated with Honors (Cum Laude) and as a member of The Honors Program

Bar Membership

- Supreme Court of the State of California
- United States District Court, Central District of California
- United States Ninth Circuit Court of Appeals

Professional Affiliations

- State Bar of California
- Riverside County Bar Association
- Los Angeles County Bar Association
- Southern California Chinese Lawyers Association
- Regional Chamber of Commerce - Board of Directors & President
- Rowland Water District-Board of Directors, Division 5
- Los Angeles Sheriff's Community Action Committee

Professional Experience

- 2009-Present, Senior Associate Attorney, Graves & King LLP, Riverside, CA
- 2005-2009, Associate Attorney, Graves & King LLP, Riverside, CA
- 2001, United States Bankruptcy Court, Central District

Proposal for Professional Legal Services

Kidman Law, LLP

KIDMAN LAW LLP

Water | Environment | Government

PROPOSAL TO PROVIDE PROFESSIONAL LEGAL SERVICES FOR THE BEAUMONT BASIN WATERMASTER

2030 Main Street, Suite 1300
Irvine, CA 92614
714-755-3100
Fax 714-755-3110
www.kidmanlaw.com

KIDMAN LAW LLP
Water | Environment | Government

2030 Main Street, Suite 1300
Irvine, California 92614
714-755-3100
714-755-3110 *fax*
www.kidmanlaw.com

April 16, 2012

Eric Fraser, General Manager
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Re: Proposal to Provide Legal Services – Beaumont Basin Watermaster


Dear Mr. Fraser:

Kidman Law is pleased to present this proposal to the Beaumont Basin Watermaster (“Proposal”) in response your Request for Proposals (“RFP”) for Legal Services. As set forth in the attached Proposal, our firm specializes in providing general counsel services to public water agencies and has extensive experience in groundwater adjudication and groundwater resource management in Southern California.

Arthur Kidman will be the partner-in-charge to conduct the services requested and the key contact person related to this RFP. Mr. Kidman has practiced for over 38 years with an emphasis on public water entity representation, water resources management, water and groundwater rights, and environmental litigation. Mr. Kidman currently serves as general counsel to the Yorba Linda Water District and the San Gabriel Basin Water Quality Authority, and as special counsel to Monte Vista Water District, a party to the Chino Basin groundwater adjudication and to the City of La Verne, a party to the Six Basins adjudication. Mr. Kidman has been involved, as lead counsel in some cases, in litigation and management of visually every groundwater basin in Southern California. A more detailed description of Mr. Kidman’s background and experience can be found in **Mr. Kidman’s Resume**, which is included in the Proposal.

Thank you for the opportunity to provide the Beaumont Basin Watermaster with our firm’s Proposal and supporting information. If you have any questions, please do not hesitate to contact Arthur Kidman at either the address and phone number listed above or via email at akidman@kidmanlaw.com.

As requested in the Request for Proposals, there are 16 pages attached to this cover letter for a total of 18 pages. We look forward to speaking with you in the near future.

Very truly yours,

KIDMAN LAW, LLP



ARTHUR G. KIDMAN

Enclosure

KIDMAN LAW LLP

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FIRM DESCRIPTION

Kidman Law is a boutique sized law firm specializing in general counsel advice to, and representation of, California public water entities. Significant legal services include groundwater basin management and groundwater rights, including groundwater storage and recovery programs, and litigation services. Kidman Law successfully represents its clients' interests through direct and frequent communication to develop legal approaches tailored to the needs of the client. A more detailed description of the firm's practice areas relevant to this RFP is discussed in the "Qualifications" section below.

Kidman Law proposes, Arthur Kidman, an AV Preeminent rated expert in public law and water law with over 38 years of experience, to act as Watermaster Legal Counsel. Mr. Kidman has extensive experience in providing general counsel advice and representation to California water agencies. He has worked extensively in groundwater adjudications, groundwater quality remediation, and other groundwater management issues in Southern California, including groundwater storage and recovery programs. **Mr. Kidman's Resume** is included in this Proposal.

Kidman Law proposes Andrew Gagen and Eddy Beltran to assist Mr. Kidman in his role as Watermaster Legal Counsel. Mr. Gagen has 12 years of civil litigation experience in all state and federal courts located in Southern California, including Riverside County Superior Court. **Mr. Gagen's Resume** is included in this Proposal.

Mr. Beltran's 12 years of legal experience includes advice to and representation of clients on a variety of general counsel matters including CEQA, the Brown Act, the Public Records Act, insurance, rights of way and property acquisition, and public works construction. **Mr. Beltran's Resume** is included in this Proposal.

Kidman Law's office is located in Orange County, but Kidman Law attorneys have represented clients throughout Southern California. Each of the firm's three attorneys will all be available to provide the services requested in the Beaumont Basin Watermaster's Legal Counsel RFP.

QUALIFICATIONS

Kidman Law understands the Watermaster's unique role, both as an arm of the court in the enforcement of a judgment and as an administrator (or "trustee") of the groundwater basin. While familiar with the Beaumont Basin Judgment, Kidman Law does not represent any party in connection with the Beaumont Basin adjudication, and as a result, Kidman Law is able to represent the Beaumont Basin Watermaster in all legal matters related to the Judgment.

Kidman Law's specialty is general counsel services to public water agencies. In addition to providing guidance to the governing body on important day-to-day matters such as the Brown Act, the Public Records Act, conflicts of interests, and ethics, Kidman Law provides tailored advice and representation to water agencies regarding intergovernmental and legislative affairs, water rights, easements and rights of way, real property acquisition, project formation, CEQA compliance, competitive bidding and public works construction.

Because of Kidman Law's specialized practice, Kidman Law attorneys have extensive knowledge of the California Water Code and expertise in all areas of water law, and in particular, groundwater rights and adjudicated groundwater basins. Specifically, Mr. Kidman has been involved with court and management proceedings in nearly every groundwater basin in Southern California, including the Orange County, Mojave River, Antelope Valley, Chino, Rialto Colton, "Six Basins," Main San Gabriel, San Fernando, Central, West Coast, Santa Paula, Pauma Valley and Santa Clarita basins.

Mr. Kidman is a published author regarding groundwater management and groundwater storage and recovery programs. Some of these publications include:

- Author, Feature Article "Groundwater Storage: Not as Easy as It Sounds," California Water Law & Policy Reporter, May 2004, Vol. 14, No. 8.
- Author, "There is No Paramount Overlying Right to Mine a Groundwater Basin" California Water Law & Policy Reporter, March 1999, Volume 9, Number 6.
- Author, "Mojave Adjudication Judgment Ends Decades of Ground Water Basin Overdraft and Political Controversy" California Water Law & Policy Reporter, February 1996, Vol. 6 Issue 5.
- Author, "Connections Between Groundwater and Surface Water," Proceedings 20th Biennial Conference on Groundwater, University of California Water Resources Center, California Department of Water Resources and State Water Resources Control Board, September 1995.
- Author "Pros and Cons of Groundwater Management or Look Out For Some Extremely Bogus Thinking," Proceedings, 18th Biennial Conference on Groundwater, University of California Water Resources Center, California Department of Water Resources and State Water Resources Control Board, September 1991.

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- Author, "San Gabriel Valley Groundwater Contamination as Cause of Water Scarcity," Proceedings, 17th Biennial Conference on Groundwater, University of California Water Resources Center, California Department of Water Resources and State Water Resources Control Board, Report No. 72, September, 1989.

Kidman Law attorneys also provide litigation representation for their clients where the firm acts as general counsel. Acting in a general counsel capacity, Kidman Law recommends engagement of special counsel where appropriate and assists agency policy-makers in overseeing and directing the efforts of special counsel.

Kidman Law's historical and on-going representation of public water entities is the foundation of knowledge for the legal services that Kidman Law can provide to the Beaumont Basin Watermaster. Kidman Law attorneys, particularly Mr. Kidman, are well equipped and have specialized experience in each of the necessary areas of "qualification" enumerated in Section 4 of the RFP. Included in this Proposal are the firm's past and present **Representative Clients** and **References**.

KIDMAN LAW'S APPROACH

Kidman Law routinely provides advice and representation regarding the enforcement of water rights and judgments in groundwater adjudications, negotiation of conjunctive use programs and storage rights, and other tasks described in the RFP's Scope of Work. If selected by the Beaumont Basin Watermaster to serve as Legal Counsel, Kidman Law will meet or exceed the scope of work described in the RFP.

Kidman Law does not provide one-size fits all legal services to its clients. Instead, Kidman Law will tailor its legal services to the needs and the budget of the Watermaster.

- A. **Accounting and Billing:** Kidman Law will establish separate billing accounts to track charges if and when specific legal projects are identified. The separate accounts may be: (1) ongoing to accommodate recurring work; or (2) ad hoc to deal with discrete assignments that are not anticipated to be recurring. The hourly rate by person for Legal Counsel services requested in the RFP is included in this Proposal under **Fee Proposal**. Kidman Law bills clients in time increments of .10 (six minutes). Attorneys and professional staff bill only for time dedicated to the client matter. Kidman Law will not charge for travel time or mileage expenses to and from regularly scheduled Watermaster meetings. Kidman Law does not charge for staff time. Only actual out of pocket costs and expenses are billed to the client. Any outside service provider's bill is included with the Kidman Law bill.
- B. **Control of Work:** Legal work assignments will be authorized through a single point of contact between the Watermaster and Mr. Kidman. Work will be assigned to other Kidman Law attorneys in the sole discretion and professional judgment of the Watermaster Legal Counsel. After the initial assignment, the Watermaster and Legal Counsel may authorize and direct collaboration on legal work assigned to specific Kidman Law attorneys.
- C. **Availability:** Kidman Law's standard is to serve each client as though no other clients place demands on our time. However, some professional accommodation will be appreciated in the scheduling of meetings. Further, the use of telephone conference calls and electronic means of communication enhance service delivery to meet Watermaster's needs and reduce costs.

CONFLICTS OF INTEREST

Except as noted below, if Kidman Law is selected to provide Legal Counsel services to Beaumont Basin Watermaster, Kidman Law and the individual members of the Kidman Law team owe no ethical duties to clients or former clients which would require Beaumont Basin Watermaster to seek substitute legal counsel on any matter.

The attorneys at Kidman Law where previously attorneys at Kidman, Behrens & Tague, LLP (KBT). Russ Behrens, a partner at KBT, served as General Counsel for the San Geronio Pass Water Agency (Pass Agency). Mr. Behrens continues to serve as General Counsel for the Pass Agency at his new firm. While at KBT, at the request of Mr. Behrens, Mr. Kidman and Mr. Beltran occasionally worked on certain Pass Agency matters. Kidman Law has not been engaged by Pass Agency to provide legal services of any kind. At this time, Kidman Law does not know of any disqualifying conflict of interest that would prevent Kidman Law from fully serving the needs of the Beaumont Basin Watermaster.

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FEE PROPOSAL

Kidman Law bills its clients in time increments of .10 (six minutes). Attorneys and professional staff bill only for time dedicated to the client matter, including travel time. Kidman Law will not charge for travel time or mileage expenses to and from regularly scheduled Watermaster meetings. Kidman Law does not charge for staff time. Only actual costs are billed to the client. Any outside service provider's bill is included with the Kidman Law bill. The proposed hourly rate for Kidman Law attorneys available for the Beaumont Basin Watermaster legal services are as follows:

| | |
|------------------|-------|
| Arthur G. Kidman | \$325 |
| Andrew B. Gagen. | \$225 |
| Eddy R. Beltran | \$225 |

REFERENCES

Brett R. Barbre, Director

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
Representing the Municipal Water District of Orange County
700 North Alameda Street
Los Angeles, CA 90012-2944
Phone (714) 396-1350
Email: brbarbre@msn.com

Ken Vecchiarelli, General Manager

YORBA LINDA WATER DISTRICT
720 E. Miraloma Avenue
Placentia, CA 92870
Phone (714) 701-3022
Email: kvecchiarelli@ylwd.com

Ken Manning, Executive Director

SAN GABRIEL WATER QUALITY AUTHORITY
1720 W. Cameron Ave., Ste. 100
West Covina, CA 91790
Phone (626) 338-5555
Email: ken@wqa.com

Mark Kinsey, General Manager

MONTE VISTA WATER DISTRICT
10575 Central Avenue
Montclair, California 91763
Phone (909) 267-2170 (direct)
Email: mkinsey@mvwd.org

Bob Kuhn, Chairman, Watermaster Board

CHINO BASIN WATERMASTER
9641 SAN BERNARDINO ROAD,
RANCHO CUCAMONGA, CA 91730
PHONE (626) 852-1757

John Schatz, General Manager

SANTA MARGARITA WATER DISTRICT
62111 Antonio Parkway
Rancho Santa Margarita, CA 92688
(949) 459-6602

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Mr. Kidman currently serves as general counsel to:

- Yorba Linda Water District
- San Gabriel Basin Water Quality Authority

Kidman Law currently serves as special counsel to:

- Monte Vista Water District
- City of LaVerne

Kidman Law attorneys have provided general counsel services to:

- Municipal Water District of Orange County
- Castaic Lake Water Agency
- San Geronio Pass Water Agency
- Santiago County Water District
- Mesa Consolidated Water District
- Rancho California Water District
- Three Valleys Municipal Water District
- Upper San Gabriel Valley Basin Municipal Water District
- Cachuma Conservation Release Board
- Orange County Water District

Kidman Law attorneys have provided water related special counsel services to:

- Pauma Valley Water Company
- City of Cerritos
- City of Downey
- City of Signal Hill
- City of Barstow
- City of San Fernando
- City of Corona
- Santa Clara Valley Water District
- East Bay Municipal Utility District
- Arrowhead Lake Association
- Golden State Water Company

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ARTHUR G. KIDMAN PARTNER

PRACTICE AREAS

Mr. Kidman has concentrated his career over the past 38 years in general counsel advice to and representation of various California water agencies. His additional specialty is representation of clients in connection with water rights and water resources management, especially related to groundwater.

PROFESSIONAL EXPERIENCE

Mr. Kidman is an AV-Preeminent™ rated attorney with nearly forty years of concentrated practice representing local agency water suppliers in all aspects water, environmental and governmental law. He has served as general and special counsel to a variety of public and private water supply, government entities, and private landowners on a full range of water related matters.

Governmental Law: From the beginning of his practice, Mr. Kidman has provided General Counsel services to a variety of local water agencies, including advice and representation in all aspects of local agency governance and operation, open meeting laws, public records, public official ethics and other governing body protocols. With a particular expertise in retail water distribution, Mr. Kidman advises clients on the complex issues that arise in connection with rate making, customer service, land development agreements and water infrastructure financing.

Legislation: Mr. Kidman served for more than thirty-five years on the State Legislative Committee of the Association of California Water Agencies and frequently advises clients on proposed and pending legislation. He has prepared proposed legislation on behalf of clients including, the Uniform Standby Charge Procedures Act (California Government Code §§ 54984 et seq.) and the San Gabriel Basin Water Quality Authority Act (Chapter 776 of the Statutes of 1992). He has worked extensively on a variety of legislative and litigation matters involving Prop 218, Prop 1A, and other water and property tax revenue measures. He was the lead co-author on behalf of the Association of California Water Agencies of: *Water Supply and Land Use Approvals, A user's guide to 2001 legislation including SB 221 (Kuehl) and SB 610 (Costa).*

Water Supply Law: Mr. Kidman provides advice and litigation counsel services to cities, water districts, water companies, and private landowners on water rights matters involving both surface and, especially, groundwater resources, including groundwater storage programs. He has practiced water rights law before state and federal courts in California as well as the State Water Resources Control Board. His expertise includes the creation, financing, permitting and construction of complex multiagency water acquisition, transmission, storage and distribution

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projects. He is familiar with the nuts and bolts aspects of local water supply, including rate setting, pipeline rights of way, health department requirements and water conservation programs.

Environmental Law: In addition to almost daily advice to clients on all aspects of the California Environmental Quality Act, Mr. Kidman has extensive experience working with the federal Superfund law as it related to groundwater contamination and cleanup. He also has worked extensively with the federal Endangered Species Act, Clean Water Act and Safe Drinking Water Act and the related California laws.

ADMITTED

1974, California and U.S. District Court, Southern, Central and Eastern Districts of California.

EDUCATION

- University of Chicago (J.D., 1974)
- Washington State University (B.A., with high honors, 1968)

PUBLISHED CASES

- City of Barstow v. Mojave Water Agency. (2000)23 Cal. 4th 1224, 99 Cal.Rptr. 2d 294
- Brydon v. East Bay Mun. Utility Dist. (1994) 24 Cal.App.4th 178, 29 Cal.Rptr.2d 128
- San Marcos Water Dist. v. San Marcos Unified School Dist. (1986) 42 Cal.3d 154, 720 P.2d 935; 228 Cal.Rptr. 47
- Kern County Water Agency v. Bd. of Supervisors (1979) 91 Cal.App.3d 874, 158 Cal.Rptr. 430

PUBLICATIONS AND PRESENTATIONS

- Author, Feature Article "Win Some, Lose Some; the War Over Water in the Santa Clarita Valley," California Water Law & Policy Reporter, April 2005, Vol.15, No. 7.
- Author, Feature Article "Groundwater Storage: Not as Easy as It Sounds," California Water Law & Policy Reporter, May 2004, Vol. 14, No. 8.
- Author, "Another Rock...an Even Harder Place: Housing Development and Water Supply," Western Water Law & Policy Reporter, Vol. 6, No. 2.
- Co-author, "Water Supply and Land Use Approvals, A user's guide to 2001 legislation including SB 221 (Kuehl) and SB 610 (Costa)" ACWA, 2002.
- Author, "A Rock and Hard Place: Financing Infrastructure," California Water Law & Policy Reporter, August 2001, Vol. 11, No. 11.
- Author, "There is No Paramount Overlying Right to Mine a Groundwater Basin" California Water Law & Policy Reporter, March 1999, Vol. 9, No. 6.
- Author, "Mojave Adjudication Judgment Ends Decades of Ground Water Basin Overdraft and Political Controversy" California Water Law & Policy Reporter, February 1996, Vol. 6, Issue 5.

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- Author, "Connections Between Groundwater and Surface Water," Proceedings 20th Biennial Conference on Groundwater, University of California Water Resources Center, California Department of Water Resources and State Water Resources Control Board, September 1995.
- Author "Pros and Cons of Groundwater Management or Look Out For Some Extremely Bogus Thinking," Proceedings, 18th Biennial Conference on Groundwater, University of California Water Resources Center, California Department of Water Resources and State Water Resources Control Board, September 1991.
- Author, "San Gabriel Valley Groundwater Contamination as Cause of Water Scarcity," Proceedings, 17th Biennial Conference on Groundwater, University of California Water Resources Center, California Department of Water Resources and State Water Resources Control Board, Report No. 72, September, 1989;
- Co-Author, "The Relationship of Just Compensation to the Land Use Regulatory Power: An Analysis and Proposal," Symposium-Land Use Planning and Control, Pepperdine Law Review, 1974, Vol. 2.

ORGANIZATIONS AND ACTIVITIES

- Orange County Bar Association
- The State Bar of California
 - Member, Sections on: Public Law; Real Property Law
- Association of California Water Agencies
 - Member: State Legislative Committee (1975 2006; 2007; 2010-present)
 - Member: Legal Affairs Committee (1975 - present)
 - Chairman: Attorneys Conference (1976 - 1980)
- Extension Instructor in Water Law, University of California, Irvine
- Costa Mesa Chamber of Commerce
 - President (1988)
- World Affairs Council of Orange County
 - President, Chairman, Nominating Committee, Executive Board (1979 - present)
- Rotary Club of Coto de Caza
 - Charter President (1983)
- CHOC Padrinos
 - Board of Directors (1993 - 2003)

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ANDREW B. GAGEN PARTNER

PROFESSIONAL EXPERIENCE

Mr. Gagen represents Kidman Law's water agencies clients with their litigation needs. Prior to joining Kidman Law, Mr. Gagen practiced toxic tort litigation and business litigation, which fully developed his skills as a civil litigator. Mr. Gagen is also a seasoned negotiator as evidenced by the 100+ settlement conferences that he has attended during his years of practice. Each of these settlement conferences involved multi-party and complex science-based issues.

Mr. Gagen previously represented the County of Orange during the CEQA/NEPA process for the proposed Orange County International Commercial Airport project; during which time he prepared responses to public comments and assisted with the preparation of the Draft EIR, Final EIR, and Supplemental EIR. In order to stay current with CEQA developments, Mr. Gagen attends the Annual CEQA Workshop in Santa Monica as well as the Environmental Law Conference in Yosemite.

During law school, Mr. Gagen clerked for both the U.S. Environmental Protection Agency in Region 5, Chicago, and the Department of Justice, Environmental Enforcement Section, in Washington, D.C; during which time he focused his practice on CERCLA litigation and compliance. Today, Mr. Gagen enjoys running, and is an avid Angels fan and Michigan Wolverine.

ADMITTED

2000, California and U.S. District Court, Southern, Central and Eastern Districts of California

EDUCATION

- Chicago-Kent College of Law, Illinois Institute of Technology (J.D., Certificate Program in Environmental and Energy Law, 2000)
- University of Michigan (B.S. in Natural Resources and Environment, 1997)

PUBLICATION

- WHAT IS AN ENVIRONMENTAL EXPERT? The Impact of *Daubert*, *Joiner*, and *Kumho Tire* on the Admissibility of Scientific Expert Evidence, 19 UCLA J. Env'tl. Law & Pol'y 2/401 (2002).

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ORGANIZATIONS AND ACTIVITIES

- State Bar of California, Member, Environmental Law Section
- Orange County Bar Association, Member, Environmental Law Section

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EDDY R. BELTRAN SENIOR COUNSEL

PROFESSIONAL EXPERIENCE

Mr. Beltran has concentrated a large portion of his practice on the representation of public agencies. During law school, Mr. Beltran worked for the City of Chicago's General Litigation Division. Mr. Beltran spent his first several years of practice representing California school districts and private sector clients in matters involving business litigation, real estate acquisitions and corporate formation and governance. Thereafter, and during his time at Kidman, Behrens and Tague, his practice expanded to represent water agencies.

At Kidman Law, Mr. Beltran provides advice and representation in all aspects of local agency governance and operation, with a special expertise in matters relating to the California Environmental Quality Act ("CEQA"). He also provides general counsel services in all aspects of local agency governance and operation, including contract preparation, bidding of public contracts and bid protests.

Mr. Beltran advises clients on all aspects of CEQA compliance and is experienced drafting a variety of CEQA documents, including negative declarations and environmental impact reports. Mr. Beltran has defended public agencies in litigation challenging the adequacy of CEQA review on several projects.

ADMITTED

1999, California and Illinois

EDUCATION

- University of Texas School of Law (J.D., 1998)
- University of Illinois at Urbana-Champaign (B.S. Finance with Honors 1993)

PUBLICATIONS

- Contributing Author, "Summary of Appellate Cases Decided by the Courts in 2007-2008," Association of California Water Agencies, September 2008.
- Co-Author, "Environmental Group Challenges Crop Idling Water Transfer Program As Potentially Harmful To Fish Habitat and Water And Quality In The Delta," California Water Law & Policy Reporter, March 2008, Vol. 18, No. 6.
- Co-Author, "Environmental Groups Challenge Approval Of Coastal Development Permit For Desalination Facility In Carlsbad," California Water Law & Policy Reporter, March

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2008, Vol. 18, No. 6.

- Co-Author, "Superior Court Denies Challenge to EIR For Water Acquisition From Kern County Water Banking and Recovery Program," California Water Law & Policy Reporter, Jan. 2008, Vol. 18, No. 4.
- Co-Author, "DWR's Long-Awaited 'Monterey Plus' Draft EIR Is Released For Public Comment," California Water Law & Policy Reporter, December 2007, Vol. 18 No. 3.
- Co-Author, "Superior Court Invalidates Local Measures Limiting Expansion Of UC Campus by Restricting Water And Sewer Service On Procedural Grounds," California Water Law & Policy Reporter, June 2007, Vol. 17, Number 9.
- Co-Author, Feature Article, "A.B. 32 and CEQA: What Must Local Agencies Do?," California Environmental Law Reporter (LexisNexis Matthew Bender), May 2007.
- Co-Author, Feature Article "Water Legislation 2006: Out-of-State Influences Impact Legislation a Constructive but Uneventful Year," California Water Law & Policy Reporter, January 2007, Vol. 17, Number 4.

ORGANIZATIONS AND ACTIVITIES

- State Bar of California, Member, Environmental Law Section
- Orange County Bar Association, Member, Environmental Law Section

4828-0458-4719, v. 1

Proposal for Professional Engineering Services

Alda Inc.

ALDA Inc.

5928 Vineyard Avenue
Alta Loma, CA 91701
Tel: (909) 587-9916
Fax: (909) 498-0423

April 16, 2012

Eric Fraser, General Manager
Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

Subject: **Beaumont Basin Watermaster
Proposal to Provide Professional Engineering Services**

Dear Mr. Fraser:

In response to your request, ALDA Inc. (ALDA), in association with Tom Harder and Company (THC), is pleased to provide the Beaumont Basin Watermaster with this proposal for engineering services associated with the management of the groundwater basin. The Watermaster is seeking a qualified engineering firm to provide administrative and engineering related services to assist in the requirements set forth in the 2004 Judgment.

Since its inception in 2006, ALDA, a small water resources consulting firm, has provided water resources consulting services throughout the Inland Empire. From inception through early 2011, ALDA provided engineering support services to the Six Basins Watermaster in the Pomona-Claremont area. The services provided were very similar to those sought by the Beaumont Basin Watermaster including production of annual report, monitoring of groundwater levels and storage, evaluation of operating safe yield, preparation of annual budgets, and overall management of ground and surface water sources.

Tom Harder, as principal owner of THC, has an extensive working knowledge of the hydrogeology of the Beaumont Basin through his work on the Noble Creek Artificial Recharge Facility (Beaumont-Cherry Valley Water District), multiple groundwater flow models of the Beaumont Basin (Beaumont-Cherry Valley Water District, San Geronio Pass Water Agency), numerous deep high capacity groundwater production wells (Beaumont-Cherry Valley Water District, Sunny-Cal Egg Ranch, City of Banning), and safe yield studies (City of Banning).

The team offers the Beaumont Basin Watermaster the following advantages:

- An experience team with a proven track record that is fully familiar with the requirements for providing engineering support services to the Watermaster;
- Local knowledge of the groundwater basin;

ALDA Inc.

Mr. Eric Fraser
April 16, 2012
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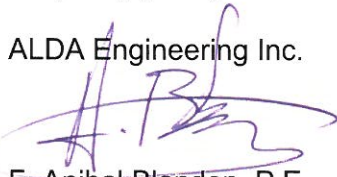
- No conflict of interest, potential or perceived, to provide unbiased technical support to the Watermaster;
- A team of two small consulting firms that is fully committed and ready to provide technical support to the Watermaster in the successful management of the Beaumont groundwater basin.

Finally, we have reviewed and acknowledge the provisions of Section 7 of the RFP, Terms and Conditions. Our current insurance policy meets or exceeds the requirements of this section.

We look forward to your review of our proposal and the opportunity to present our qualifications and approach in person. Should you have any questions on our proposal, please contact us at 909-587-9916 during normal business hours.

Very truly yours,

ALDA Engineering Inc.



F. Anibal Blandon, P.E.
Principal

Proposal Table of Contents

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BEAUMONT BASIN WATERMASTER PROFESSIONAL ENGINEERING SERVICES PROPOSAL

Project Approach

The Beaumont Basin Watermaster is seeking Professional Engineering Services that will enable them to fulfill its fundamental duties in administering the terms of the Judgment. These duties include:

- ✓ Administering the Judgment
- ✓ Maintaining and improving water supply and water quality
- ✓ Approving producer activities
- ✓ Developing contracts
- ✓ Monitoring and understanding the basin
- ✓ Providing cooperative leadership

To attain the above, the Watermaster must administer the Judgment in accordance to the Rules and Regulations, which call, amongst others, for the preparation of an annual report, estimation of the operating safe yield of the basin, preparation of the basin condition report, and conducting an annual review of the Rules and Regulations to make sure policies and practices remain current.

The scope of services identified in the Request for Proposals outlines seven tasks to be conducted. Our approach and understanding to the individual tasks is detailed below.

Task 1 – Data Collection

Collection of a complete set of data is fundamental for the proper completion of many of the tasks outlined in the RFP. Part VI of the Judgment gives Watermaster the power to monitor groundwater levels, storage, ground levels, and water quality in the Basin. In addition, Watermaster collects groundwater production, spreading of imported water, and ground level subsidence information.

The accounting of groundwater production in the Beaumont Basin depends on whether the producing party is an appropriative producer or an overlying user. Production from appropriators is metered and can be obtained from the five water agencies that produced from the basin. Production from overlying parties may or may not be metered or their meters may have not been working properly. Unmetered production from overlying parties would need to be estimated using a water duty method previously established. Production information will be obtained since January 2011.

Imported water recharge from the SWP Water Project at the Little San Geronio Creek Spreading Ponds will be obtained from the Pass Agency while spreading at the Noble Creek facility will be obtained from the Beaumont Cherry Valley Water District.

Recycled water discharges along Marshall Creek will be obtained from the City of Beaumont's Wastewater Treatment Plant No. 1. The portion of the recycled water discharges that recharges the Basin will be estimated considering infiltration rates, evapotranspiration estimates, and crop coefficients

Water quality information will be obtained from individual member agencies and from the San Timoteo Watershed Management Authority.

Water level monitoring from each of the 13 wells equipped with transducers can be accessed from Watermaster; in addition, member agencies will be contacted for additional groundwater level available.

Ground level survey throughout the basin, scheduled to be conducted in 2012, needs to be reviewed and compared against the results from 2009 to assess the level of subsidence in the study area.

Other information to be collected include transfers between appropriators, transfers of Overlying Rights for service by an Appropriator, and allocation of unused Overlying water. In addition, Watermaster may collect in the future meter testing data annually to verify the accuracy of production meters.

Under this task, ALDA will collect and compile the information from the various sources described above into a central database that is GIS based. The Watermaster's current consultant has been using HydroDaVE to maintain and organize the data; it is assumed that all the historical data will be made available through the Watermaster.

ALDA will incorporate all historical data into a centralized GIS database

It is our understanding that field collection of information is not anticipated at this time.

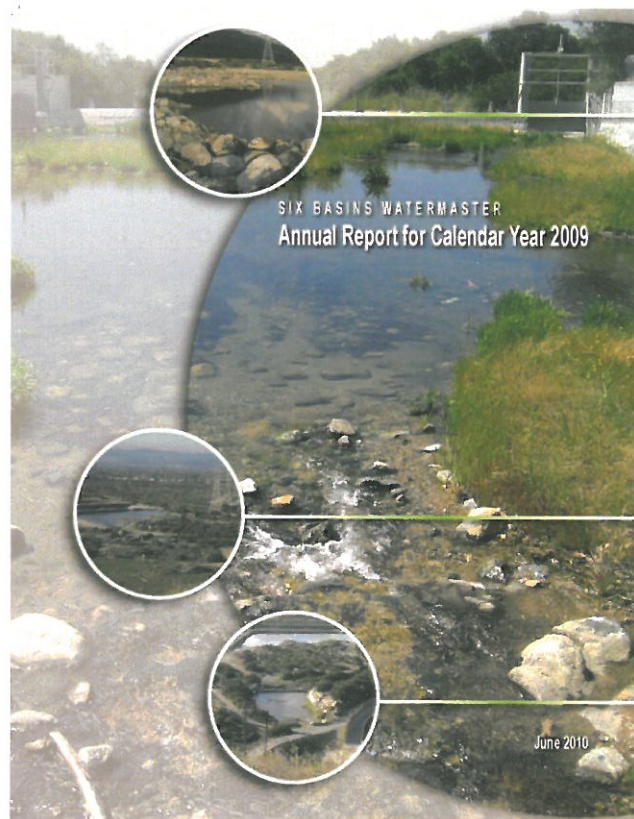
In summary, we understand the nature and sources of data; we will identify and resolve potential conflicts and data inconsistencies should they arise.

Task 2 – Preparation of Annual Report

Section 2.12 of the Rules and Regulations indicates that a draft annual report shall be prepared by the August Watermaster meeting and a final report shall be prepared by September.

The annual report will document the operations of the Beaumont Basin Watermaster including water levels, water transfers, water production, assessment of basin conditions, carryovers, replenishment, replenishment obligations, and recommendations for future pumping and spreading activities. In addition, the annual report will include the annual independent

financial report (prepared by others) and a description of Watermaster activities, Board actions, and documentation of water quality at a significant number of well locations. The annual report will also incorporate the results of the Operating Safe Yield, as required under Task 3.

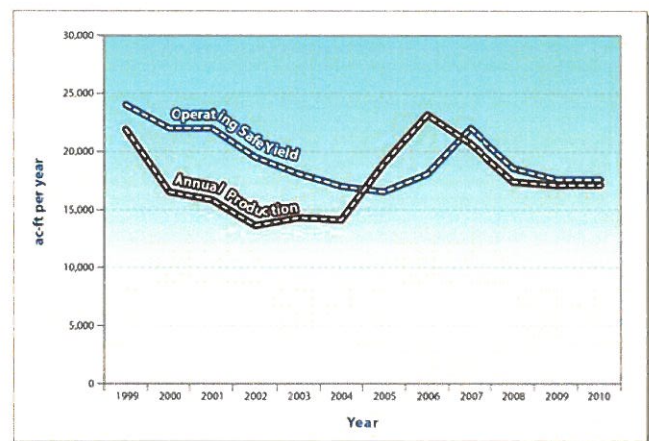


Depending on the timing for the approval of the contract for this project, ALDA may be able to collect the required information and complete the draft of the annual report by the August Watermaster meeting. ALDA will prepare 25 copies of the draft report and submit to the Watermaster for review and comment. A final report will be submitted two weeks after receiving comments on the draft report. Upon completion of the annual report, ALDA will submit all electronic files to the Secretary of the Watermaster.

Task 3 – Determination of Annual Operating Safe Yield

The safe yield of the Basin, as designated by the Judgment, is 8,650 ac-ft/yr. In addition, a temporary surplus was established, allowing 16,000 ac-ft/yr of additional pumping by the Appropriators for the first ten years of operations. The purpose was to establish a controlled drawdown of water levels in the basin to create room for storage of supplemental water and reduce outflows from the Basin. The safe yield of the Basin is to be updated in the 2012/13 fiscal year.

Section 4 of the Rules and Regulations indicates that the Operating Safe Yield (OSY) of the Beaumont Basin shall be redetermined by the Watermaster on an annual basis.



Accurate estimation of the Operating Safe Yield ALDA since 2007 was essential to the proper management of water resources in the Six Basins Area

Our approach for developing a determination of the Operating Safe Yield begins by reviewing groundwater levels, groundwater production, groundwater recharge and groundwater quality data for the Beaumont Basin area as a basis for determining the annual operating safe yield (OSY) of the basin for the 2011 and 2012 calendar years. The focus of the review will be groundwater level trends at the eight monitoring wells previously reported in the annual reports.

Groundwater level trends will be evaluated in the context of groundwater production and basin and artificial recharge in order to make a determination of OSY. We will also review groundwater quality data to determine if groundwater quality changes have affected the OSY.

Based on the analysis of the above data, we will generate an Annual OSY Technical Memorandum (TM) that summarizes the analysis and provides a recommended OSY for the coming year. The TM will be prepared in 2012 for the basin operational data from 2011 and will be suitable for incorporation into the Annual Report.

Task 4 – Review of Rules & Regulations

At least once a year, we will review the Rules and Regulations to determine whether they represent current policies and practices. Should changes be needed, they will be documented and presented to the Board for consideration and update.

Recommended changes to the Rules and Regulations will be incorporated into the annual report for the Beaumont Basin.

Task 5 – Basin Condition Report

It is our understanding that this biennial report is essentially the same as the Biennial Engineer's Report that has previously been prepared. ALDA will coordinate with producing parties and the San Timoteo Watershed Management Authority to collect water quality information from production wells and other information necessary, as identified under Task 1, to prepare a Basin Condition Report in accordance with Section 2.13 of the Rules and Regulations. It is our understanding that this report is not intended to be all inclusive of water quality constituents tested by water agencies in accordance with current regulations; however,

the report should provide a representative characterization of water quality issues in the Beaumont Basin.

TDS and nitrogen seem to be the two water quality issues of concern in the Beaumont Basin; however, a number of trace metals have been observed in one or more wells including: aluminum, arsenic, iron, lead, manganese, total chromium, and vanadium. In addition, the secondary standards of pH and turbidity have been exceeded at various wells in the Basin.

The Basin Condition Report will also document groundwater pumping, levels, recharge, and storage as well as the results of the tri-annual ground survey to assess land subsidence issues.

The findings of the Basin Condition Report will be summarized in the Annual Report; however, an independent report documenting the conditions of the basin will be developed. The following sections will be included:

- ✓ Introduction
- ✓ Climate, Hydrology and Hydrogeology
- ✓ Monitoring and Data Collection Programs
- ✓ Groundwater Pumping, Recharge, Elevation and Storage
- ✓ Water Quality Conditions
- ✓ Land Subsidence
- ✓ References

Task 6 – Meeting Attendance

As indicated in the RFP, we will prepare, attend and participate in up to six (6) Watermaster meetings each year. We anticipate and have budgeted for providing technical assistance to Watermaster during agenda preparation for each of these meetings, including writing technical memoranda and preparing presentations.

Task 7 – Miscellaneous Special Projects

ALDA will coordinate with Watermaster on additional activities that may be required in the course of the year to address specific issues not identified in the RFP. For each of these activities, ALDA will develop a scope of services and a consulting fee for Watermaster consideration before proceeding with any additional work.

Scope of Services - 2012

We request for proposals identifies seven tasks to be included under this contract. The preceding section presented our approach to those tasks; our proposed scope of services is presented below.

Task 1 – Data Collection

ALDA will collect, compile, and tabulate the following data:

- ✓ Monthly water production from member agencies
- ✓ Monthly imported water recharge by each party
- ✓ Monthly rainfall from the USGS, Army Corps, and National Weather Service
- ✓ Monthly static groundwater levels at dedicated monitoring wells and selected production wells from the water agencies
- ✓ Monthly deliveries of imported water, groundwater from other basins, and surface water diversions from various water agencies
- ✓ Semi-annual static groundwater levels from production wells
- ✓ Annual water quality from production wells from the water agencies

It is our understanding that field collection of static water levels at dedicated monitoring wells and/or production wells is not part of this scope of services.

Task 2 – Preparation of Annual Report

ALDA will prepare a draft and a final annual report documenting the operations of the Beaumont Basin Watermaster. This includes water levels, water transfers between agencies, water production, assessment of basin conditions, carryovers, and replenishment obligations. In addition, the report will incorporate the results of the Operating Safe Yield analysis, conducted under Task 3, and a water quality summary of the Basin Condition Report, conducted under Task 5. The report will also include the annual independent financial reports (prepared by others) and a description of Watermaster activities and Board actions.

Twenty-five color copies of the draft and final annual reports will be provided along with a digital file of the report. In addition, an editable database will be provided that includes all supporting information for the annual report.

Task 3 – Annual Determination of the Operating Safe Yield

ALDA will review groundwater levels, groundwater production, groundwater recharge and groundwater quality data for the Beaumont Basin area as a basis for determining the annual operating safe yield (OSY) of the basin for the 2011. The focus of the review will be groundwater level trends at the eight monitoring wells previously reported in the annual reports. Groundwater level trends will be evaluated in the context of groundwater production and basin and artificial recharge in order to make a determination of OSY.

ALDA will generate an Annual OSY Technical Memorandum (TM) that summarizes the analysis and provides a recommended OSY for the coming year. The TM will be suitable for incorporation into the Annual Report.

Task 4 – Review of Rules and Regulations

ALDA will review the existing Rules and Regulations annually to determine whether it reflects current policies/practices and will make recommendations that will be documented as part of the annual report.

Making revisions and distributing documents is not included as part of our scope of services as we do not know at this time the extent of the revisions to be made. Under this task, ALDA will review the documents and may provide recommendations, if any, for potential changes to be considered by the Board.

Task 5 – Basin Condition Report

ALDA will obtain from the Appropriators and selected producers with overlying rights water quality information to prepare a Basin Condition Report in accordance with Section 2.13 of the Rules and Regulations. The findings of this report will be summarized in the annual report; however, an independent report will be prepared documenting the conditions of the basin.

It is our understanding that an all-inclusive water quality analysis is not intended as part of this report. The water quality analysis will focus on nitrate, TDS, and some trace metals. In addition, the report will document current water quality concentrations in relation to current Federal and State Drinking Water Standards.

Task 6 – Meeting Attendance

ALDA will prepare for, attend, and participate in up to six (6) Watermaster meetings in 2012. Assistance during agenda preparation was not identified in the RFP; however, we have allocated some time to assist Watermaster in the preparation of technical memoranda to address potential issues to be included in the meeting agenda.

Task 7 – Miscellaneous Special Projects

ALDA will coordinate with Watermaster on additional activities that may be required in the course of the year to address specific issues not identified in the RFP. For each of these activities, ALDA will develop a scope of services and a consulting fee for Watermaster consideration before proceeding with any additional work.

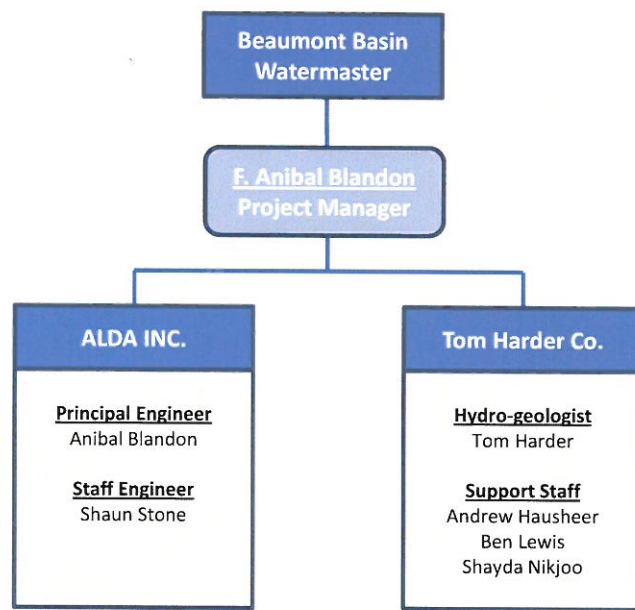
Project Team and Qualifications

ALDA Inc. (ALDA) is uniquely qualified to provide Engineering Services to the Beaumont Basin Watermaster. Beginning in 2006 through early 2011, ALDA provided technical and engineering support to the Three Valleys Municipal Water District as Watermaster of Six Basins in the Claremont-Pomona area on a project that is virtually identical to the Beaumont Basin Watermaster project. The support services provided to TVMWD included preparation of annual report, determination of operating safe yield, review of rules and

ALDA provided technical support services to TVMWD as Watermaster for Six Basins in the Pomona-Claremont area between 2006 and 2011.

regulations, and overall assistance in the management of the groundwater basins.

We have supplemented our firm experience with the services of Tom Harder and Company (THC) to assist on the determination of the Operating Safe Yield and support on the preparation of the annual report and basin condition report. Tom's unique qualifications for this project are presented later in this section.



The organizational chart shown in this page identifies the proposed team structure for this project. Summaries of the qualifications and experience of key team members follows.

F. Anibal Blandon, P.E. – Project Manager

Mr. Blandon, as our proposed project manager and principal engineer of ALDA Inc., will be our primary contact in charge of the day to day interaction with Watermaster staff and member agencies representatives.

Mr. Blandon has been providing consulting services over the last 23 years to numerous clients in the Inland Empire. Relevant experience to this project includes:

- ✓ Technical Support to TVMWD's Administrative and Technical Services to the Six Basins Watermaster. From 2006 through mid 2011, he was responsible for the following services:
 - Development of Annual Report
 - Determination of the Operating Safe Yield
 - Evaluation of Water Quality
 - Preparation of Annual Budget

- Management of Spreadsheet Model
- Evaluation of Water Level Conditions
- Documentation of various technical issues related to management of water resources in Six Basins
- ✓ Project manager for the completion of a Regional Water Master Plan for San Bernardino Valley MWD in the mid-90s
- ✓ Managed the Mitigation Alternatives to Rising Groundwater Study for TVMWD in the Six Basins Management Area
- ✓ Project engineer for the evaluation of recharge capacity at the Santa Anita spreading grounds
- ✓ Provided technical support to CDM on the completion of an Integrated Water Supply Plan for the City of Riverside
- ✓ Designed spreading basins on the Los Angeles side of the San Antonio Spreading Grounds
- ✓ Provided construction inspection of spreading berms on USACE property on the San Bernardino side of the SASG spreading grounds
- ✓ Developed conceptual design of spreading basins in the Thompson Creek Spreading Grounds
- ✓ Managed development of groundwater model of the Six Basins Management Area
- ✓ Managed the Evaluation of Groundwater Conditions Report in the Pomona Valley Protective Association (PVPA) service area for the 1990-94 and 1995-96 reporting periods
- ✓ Managed Assessment of Spreading Operations and Development of

Spreading Operating Parameters for PVPA

- ✓ Managed the Bunker Hill Regional Water Supply Project for SBMWD
- ✓ Fully or partially responsible for the completion of Water Master Plans or Facilities Plans for the following communities:
 - Yucaipa Valley Water District
 - City of San Bernardino MWD City of Big Bear Lake DWP
 - City of Riverside Water Supply
 - San Bernardino Valley MWD
 - City of Colton
 - City of San Diego
 - Phelan (CSA70-Zone L)
 - City of Tijuana and Rosarito
 - Recycled Water Master Plans for
- ✓ Technical Assistance to the City of Pomona in the preparation of an Integrated Water Supply Plan.
- ✓ Managed the completion of recycled water master plans for:
 - City of Fontana
 - City of Henderson, Nevada

Tom Harder, P.G., C.H.G. – Project Hydrogeologist

Mr. Harder is a California Professional Geologist and Certified California Hydrogeologist. During his 21 years of professional experience, Mr. Harder has provided technical direction and management for some of the largest water resource projects in southern California. His expertise spans a wide range of hydrogeological disciplines, including water wells, regional groundwater basin analysis, perennial yield (i.e. safe yield), artificial recharge, groundwater management, groundwater models, and contaminant hydrogeology.

In addition to hydrogeologic experience throughout California, Mr. Harder has an extensive working knowledge of the hydrogeology of the Beaumont Basin through his work on the Noble Creek Artificial Recharge Facility (Beaumont-Cherry Valley Water District), multiple groundwater flow models of the Beaumont Basin (Beaumont-Cherry Valley Water District, San Geronio Pass Water Agency), numerous deep high capacity groundwater production wells (Beaumont-Cherry Valley Water District, Sunny-Cal Egg Ranch, City of Banning), and safe yield studies (City of Banning). It is noted that Mr. Harder conducted most of this work under a previous employer and he does not have any current open contracts that would present a conflict of interest with the Beaumont Basin Watermaster.

Mr. Harder's experience in groundwater management and modeling includes:

- ✓ Peer Review of USGS Model of the Beaumont and Banning Groundwater Storage Units
- ✓ Peer Review of the Beaumont Basin Groundwater Flow Model
- ✓ Smith Creek artificial recharge evaluation in the City of Banning
- ✓ Development of a Groundwater Flow Model of the Murrieta Valley
- ✓ Update of the Chino Desalter Groundwater Flow Model
- ✓ Update of the Chino Basin Water Quality groundwater model for the Jurupa Community Services District
- ✓ Peer Review of a groundwater flow model of the San Luis Rey River Groundwater Storage and Recovery Study
- ✓ Peer Review of groundwater flow model for the Hayfield Groundwater Storage P.
- ✓ Technical Assistance for the Development of a surface and groundwater model for the Santa Margarita River Watershed
- ✓ Technical Assistance for the development of a watershed and groundwater model for the Cadiz Groundwater Storage and Dry-Year Supply Program
- ✓ Groundwater supply evaluation for the City of Pomona Integrated WSP

References

We encourage the Beaumont Basin Watermaster, member agencies, or members of the selection committee to contact our listed references to attest to the quality of our work and responsiveness of our team.

References for ALDA Inc. are as follows:

Three Valleys Municipal Water District

1021 E. Miramar Avenue
Claremont, CA 91711
Mr. Mario Garcia, District Engineer
(909) 621-5568
mgarcia@TVMWD.com

San Bernardino Valley Municipal Water District

380 East Vanderbilt Way
San Bernardino, CA 92408
Mr. Sam Fuller, District Engineer
(909) 384-9200
Samf@SBVMWD.com

Big Bear Lake Dept. of Water and Power

41972 Garstin Drive
Big Bear Lake, CA 92315
Mr. Bill LaHaye, Water Resources Manager
(909) 866-5050 x 205
Lahayeb@bblwdp.com

West Valley Water District

855 West Baseline Road
Rialto, CA 92376
Mr. Tom Crowley, Assistant General Manager
(909) 875-6970
Tcrowley@WVWD.org

City of Pomona Water Department

505 South Garey Avenue
Pomona, CA 91766
Mr. Jim Taylor, Water Operations Manager
(909) 620-2253
Jim_Taylor@ci.pomona.ca.us

References for Tom Harder and Company are as follows:

Big Bear Lake Department of Water and Power

41972 Garstin Drive
Big Bear Lake, CA 92315
Mr. Bill LaHaye, Water Resources Manager
(909) 866-5050 x 205
Lahayeb@bbldwp.com

Jurupa Community Services District

11201 Harrel Street
Mira Loma, CA 91752
Eldon Horst, General Manager
(951) 685-7434
ehorst@jcsd.us

Ventura County Waterworks District 8

2929 Tapo Canyon Road
Simi Valley, CA 93063
Mr. Ernest Wong
(805) 583-6896

Conflict of Interest

Neither ALDA Inc. nor Thomas Harder and Company have a conflict of interest with any of the Appropriators or Overlying users in the Beaumont Basin.

While Mr. Blandon conducted a Water Master Plan for the Yucaipa Valley Water District working for his previous employer, it was conducted over 10 years ago and it is not considered a project that could result in a conflict of interest at the present time.

Mr. Harder conducted most of this work under a previous employer and he does not have any current open contracts that would present a conflict of interest with the Beaumont Basin Watermaster.

Billing Rates for ALDA Inc.

Per your request, our billing rates are inclusive of other direct costs associated with professional services to be provided to the Beaumont Basin Watermaster.

Billing rates for Calendar Year 2012 are as follows:

| Position | Hourly Rate |
|-----------------------------|--------------------|
| Project Manager | \$150.00 |
| Project Engineer | \$135.00 |
| Staff Engineer | \$110.00 |
| Graphics / Designer Drafter | \$ 90.00 |
| Drafter | \$ 75.00 |
| Clerical | \$ 65.00 |

Billing Rates for Thomas Harder and Company

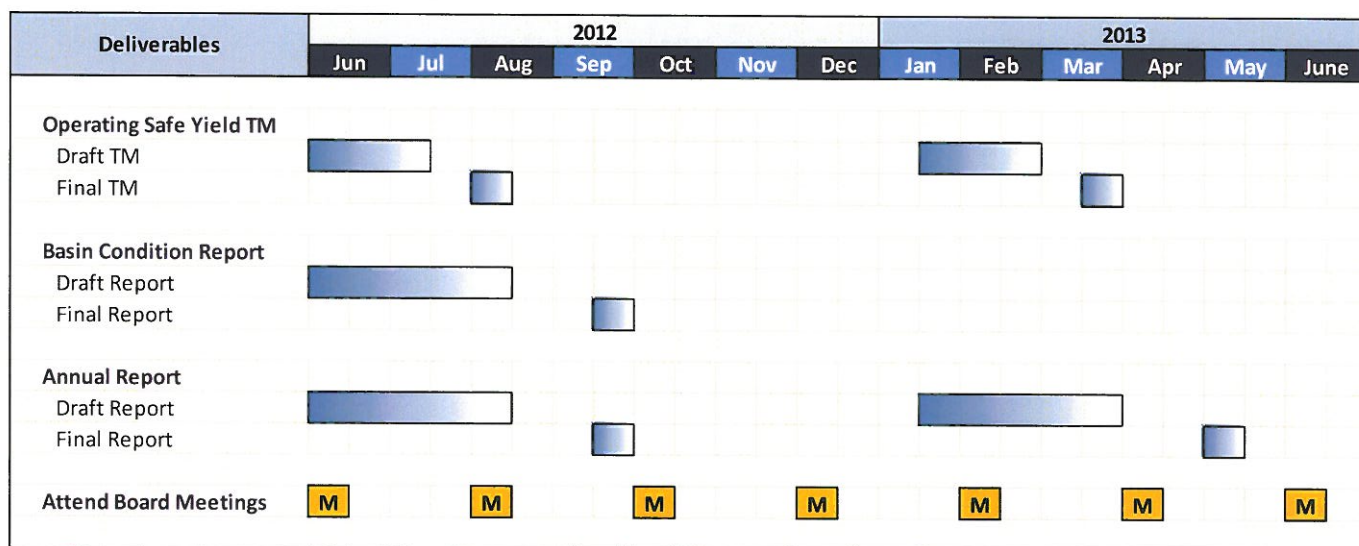
Billing rates for Calendar Year 2012 are as follows:

| Position | Hourly Rate |
|---------------------------|--------------------|
| Principal Hydro-geologist | \$160.00 |
| Staff Hydro-geologist | \$ 90.00 |
| Field Technician | \$ 70.00 |
| Graphics | \$ 85.00 |
| Clerical | \$ 65.00 |
| Expert Witness | \$320.00 |

Proposed Schedule

Our proposed schedule is presented for the remainder of 2012 and the first half of 2013. Assuming that a notice to proceed is given by June 1, 2012, a draft technical memorandum of the Operating Safe Yield will be made available by mid-July, 2012. Similarly, draft reports for the Basin Condition Report and Annual Report for 2011 will be presented for the Board's review by mid-August, 2012. Presentation of the draft Annual Report in August is consistent with the Section 2.12 of the Rules and Regulations that indicate that a draft report must be prepared by August and a final report by September.

A draft of the annual report for 2012 will be presented by the end of March 2013.



ALDA Inc.

5928 Vineyard Avenue
Alta Loma, CA 91701
Tel: (909) 587-9916
Fax: (909) 498-0423

April 16, 2012

Eric Fraser, General Manager
Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

Subject: **Beaumont Basin Watermaster
Proposal to Provide Professional Engineering Services
Proposed Consulting Fee Estimate**

Dear Mr. Fraser:

ALDA Inc. (ALDA) is very pleased to have the opportunity to being considered to provide engineering consulting services in support to the Beaumont Basin Watermaster. Please find attached our proposed consulting fee for the services described in our proposal. Per the requirements of the Request for Proposals, we are providing a breakdown of labor hours by employee billing classification for each of the tasks identified in the RFP.

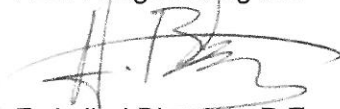
Our standard billing rates have been included in the body of the main proposal as requested and it are also included here. Our proposed fee is a firm offer for a 90-day period.

We welcome your thorough review of our proposal along with our fee estimate and look forward assisting the Watermaster in fulfilling its fundamental duties in administering the terms of the Judgment.

Should you have any questions on our proposal and/or fee estimate or need further clarification, please contact us at 909-587-991 during normal business hours.

Very truly yours,

ALDA Engineering Inc.



F. Anibal Blandon, P.E.
Principal

ALDA Inc.

Mr. Eric Fraser
April 16, 2012
Page 2 of 2

Billing Rates for ALDA Inc.

Per your request, our billing rates are inclusive of other direct costs associated with professional services to be provided to the Beaumont Basin Watermaster.

Billing rates for Calendar Year 2012 are as follows:

| <u>Position</u> | <u>Hourly Rate</u> |
|-----------------------------|--------------------|
| Project Manager | \$150.00 |
| Project Engineer | \$135.00 |
| Staff Engineer | \$110.00 |
| Graphics / Designer Drafter | \$ 90.00 |
| Drafter | \$ 75.00 |
| Clerical | \$ 65.00 |

Billing Rates for Thomas Harder and Company

Billing rates for Calendar Year 2012 are as follows:

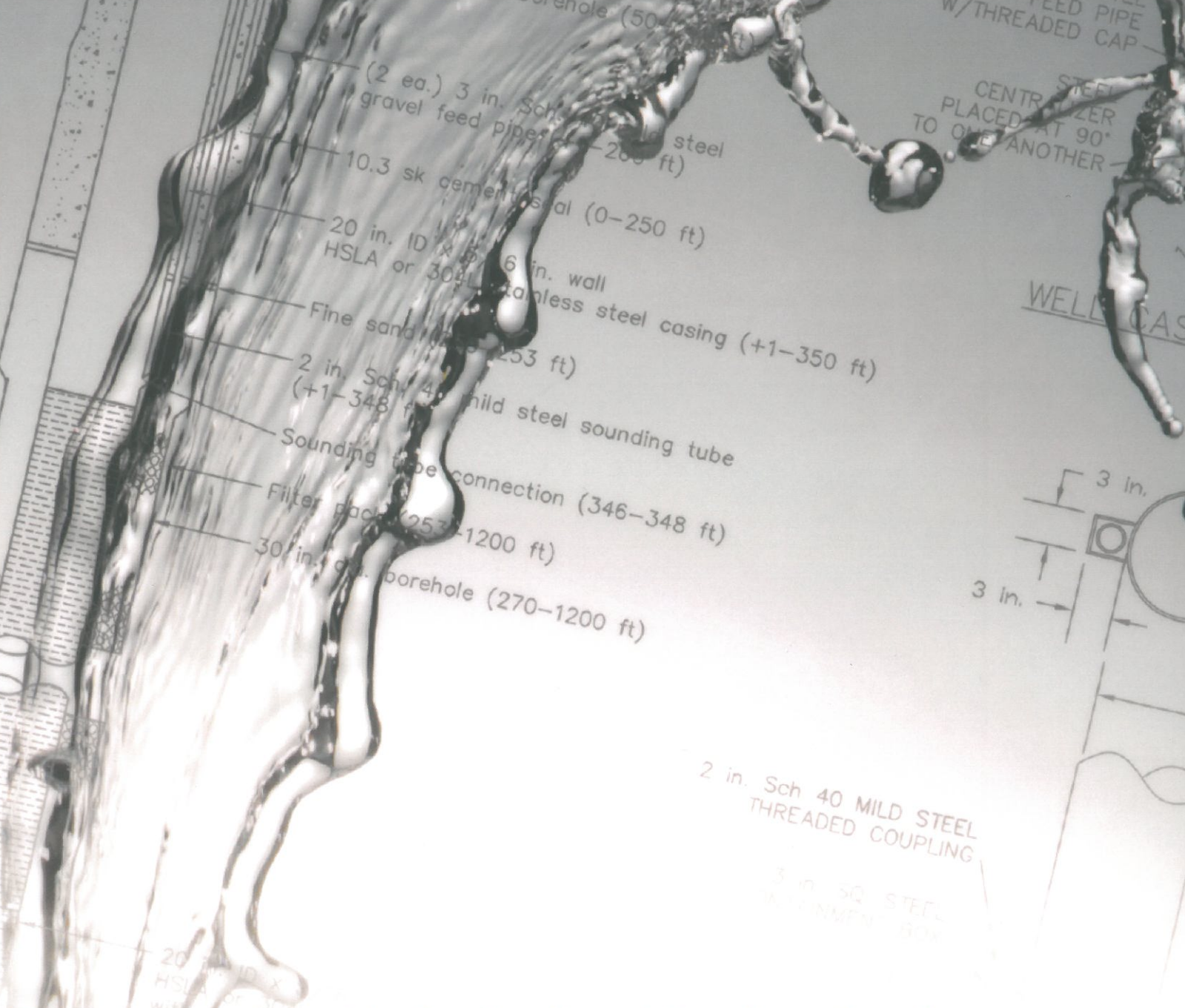
| <u>Position</u> | <u>Hourly Rate</u> |
|---------------------------|--------------------|
| Principal Hydro-geologist | \$160.00 |
| Staff Hydro-geologist | \$ 90.00 |
| Field Technician | \$ 70.00 |
| Graphics | \$ 85.00 |
| Clerical | \$ 65.00 |
| Expert Witness | \$320.00 |

Beaumont Basin Watermaster Professional Engineering Services - Fee Estimate - Year 1

| Task / Subtask | ALDA Inc. | | | | Thomas Harder & Co. | | | | Total Hours | Cost (\$) |
|--|-----------------|------------------|----------------|----------|---------------------|---------------------------|-----------------------|----------|-------------|---------------|
| | Project Manager | Project Engineer | Staff Engineer | Graphics | Clerical | Principal Hydro-geologist | Staff Hydro-geologist | Graphics | | |
| Task 1.- Data Collection | | | | | | | | | | |
| 1.1 - Data collection for Annual Report | 4 | 8 | 24 | | | | | | | 54 \$ 6,480 |
| 1.2 - Additional for Basin Condition Report | 2 | 4 | 12 | | | | | | | 36 \$ 4,320 |
| | | | | | | | | | | 18 \$ 2,160 |
| Task 2 - Annual Report | | | | | | | | | | |
| 2.1 - Pumping for metered wells | 4 | 8 | | | | | | | | 160 \$ 19,040 |
| 2.2 - Pumping for parties with non-metered wells | 4 | 16 | 8 | | | | | | | 12 \$ 1,680 |
| 2.3 - Document basin activities | 4 | 8 | | | | | | | | 28 \$ 3,640 |
| 2.4 - Prepare draft report | 8 | 32 | 8 | 12 | 12 | | | 8 | | 12 \$ 1,680 |
| 2.5 - Prepare final report | 4 | 12 | | 4 | 8 | | | | | 80 \$ 8,940 |
| | | | | | | | | | | 28 \$ 3,100 |
| 3.- Operating Safe Yield | | | | | | | | | | |
| 3.1 - Review of data for 2011-12 | | | | | | 8 | 12 | | | 60 \$ 7,200 |
| 3.2 - Preparation of OSY TMs for 2011-12 | 4 | | | | | 16 | 12 | 4 | 4 | 20 \$ 2,360 |
| | | | | | | | | | | 40 \$ 4,840 |
| 4.- Rules and Regulations | | | | | | | | | | |
| | 8 | | | | | | | | | 8 \$ 1,200 |
| 5.- Basin Condition Report | | | | | | | | | | |
| 5.1 - Evaluate basin conditions | 4 | 4 | | | | 2 | 8 | | | 204 \$ 22,900 |
| 5.2 - Develop groundwater contour maps | | 4 | | | | 4 | 8 | 8 | | 18 \$ 2,180 |
| 5.3 - Calculate change in storage | | | | | | 4 | 8 | | | 24 \$ 2,580 |
| 5.4.- Groundwater quality evaluation | 4 | 24 | | | | 4 | 16 | | | 12 \$ 1,360 |
| 5.5 - Prepare draft report | 4 | 12 | 8 | 8 | 12 | 8 | 8 | 12 | | 48 \$ 5,920 |
| 5.6 - Prepare final report | 2 | 12 | | 4 | 4 | | 4 | 4 | | 72 \$ 7,620 |
| | | | | | | | | | | 30 \$ 3,240 |
| 6.- Meeting Attendance | | | | | | | | | | |
| 6.1 - Assistance with agenda preparation | 12 | 8 | 8 | | | 6 | | | | 82 \$ 12,040 |
| 6.2 - Attend Watermaster meetings | 36 | | | | | 12 | | | | 34 \$ 4,720 |
| | | | | | | | | | | 48 \$ 7,320 |
| 7.- Miscellaneous Projects | | | | | | | | | | |
| | | | | | | | | | | \$ - |
| TOTALS: | | | | | | | | | | |
| | 104 | 152 | 68 | 28 | 36 | 64 | 76 | 36 | 4 | 568 \$ 68,860 |

Proposal for Professional Engineering Services

Geoscience Support Services,
Inc.



Proposal to Provide Professional Services for the Beaumont Basin Watermaster

PREPARED FOR:

Beaumont Basin Watermaster

April 16, 2012

PREPARED BY:

GEOSCIENCE Support Services, Inc., Ground Water Resources Development
P.O. Box 220, Claremont, CA 91711 | P: 909.451.6650 | F: 909.451.6638 | www.gssiwater.com



**PROPOSAL TO PROVIDE PROFESSIONAL SERVICES FOR THE
BEAUMONT BASIN WATERMASTER**

APRIL 16, 2012

- SECTION 1 EXECUTIVE SUMMARY LETTER**
- SECTION 2 PROJECT UNDERSTANDING**
- SECTION 3 PROJECT APPROACH AND SCOPE OF WORK**
- SECTION 4 DATA QUALITY CONTROL, SECURITY, AND ACCESS**
- SECTION 5 QUALIFICATIONS, CAPABILITIES, AND EXPERIENCE**
- SECTION 6 REFERENCES**
- SECTION 7 CONFLICTS OF INTEREST**
- SECTION 8 KEY PERSONNEL AND PROJECT TEAM**
- SECTION 9 RESUMES**
- SECTION 10 STATEMENT OF OFFER**

SECTION 1

Executive Summary Letter

SECTION 1 - EXECUTIVE SUMMARY LETTER

GEOSCIENCE Support Services, Inc. (GEOSCIENCE) is pleased to provide the Beaumont Basin Watermaster (Watermaster) with this proposal to provide professional services in order to satisfy Watermaster's obligations under the judgment entitled "San Timoteo Watershed Management Authority, vs. City of Banning, et al.," Case No. RIC 389197, signed February 4, 2004. This proposal is in response to the Request for Proposals (RFP) with due date April 16, 2012.

GEOSCIENCE is an established ground water consulting firm specializing in ground water development, planning, resources, and protection. For more than thirty years, GEOSCIENCE has successfully worked with most of the major water districts and municipalities in California, including the West Basin Municipal Water District, the Orange County Water District, the Water Replenishment District of Southern California, the Los Angeles County Department of Public Works, the Irvine Ranch Water District, the Municipal Water District of Orange County, the San Bernardino Valley Municipal Water District, the Western Municipal Water District, and the Metropolitan Water District of Southern California.

We recognize the chief role that the Watermaster plays in the overall management of the Beaumont Basin and the significance of having knowledgeable and experience personnel to ensure that all technical duties of the Watermaster are carried out. Therefore, we have selected, and are prepared to fully commit a highly qualified and enthusiastic team of professionals to this Project. The Project Team will be provided solely from GEOSCIENCE. We are confident that the combined knowledge and experience of this team will ensure completion of all duties, including attendance and participation during Watermaster meetings. We are pleased to provide an outline of the entire Project Team in the following proposal.

We appreciate the opportunity to propose on this project.

Sincerely,



Dennis E. Williams, Ph.D.
President

CONTACT INFORMATION

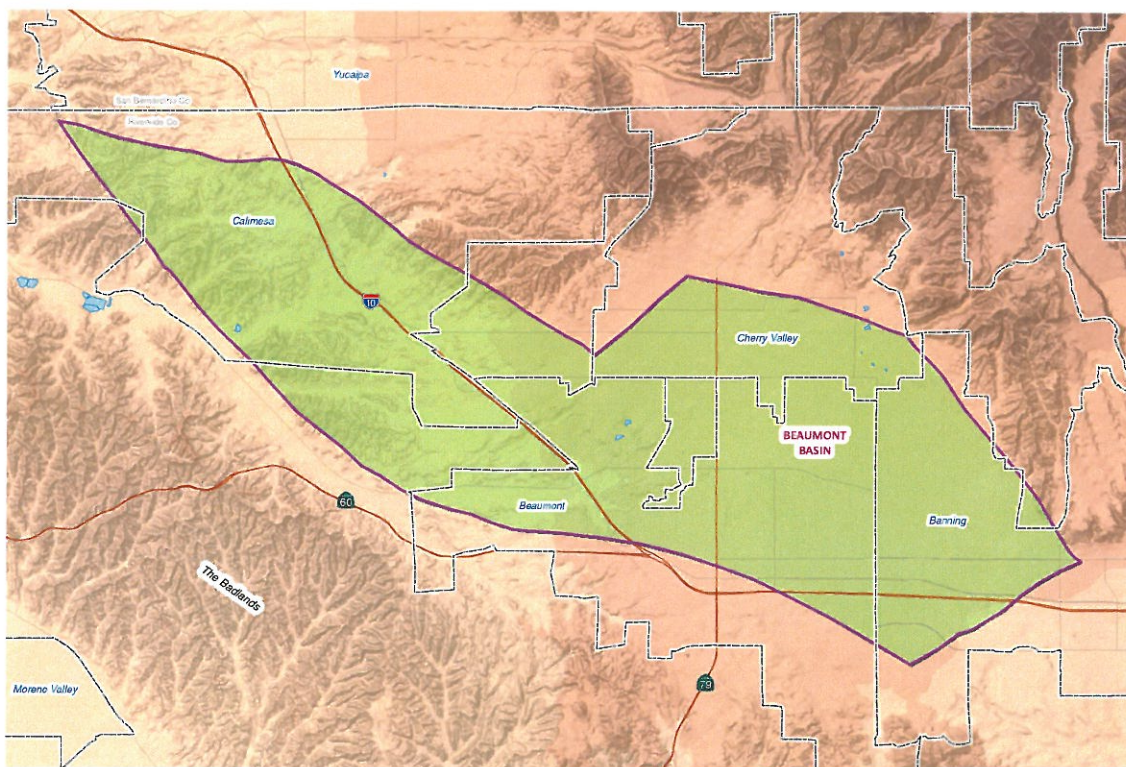
Dr. Dennis E. Williams
GEOSCIENCE Support Services, Inc.
620 W. Arrow Highway, Suite 2000
La Verne, CA 91750
Mailing Address: P.O. Box 220, Claremont, CA 91711
Telephone: 909.451.6650
Fax: 909.451.6638
Email: dwilliams@geoscience-water.com

SECTION 2

Project Understanding

SECTION 2 – PROJECT UNDERSTANDING

We understand that Beaumont Basin Watermaster (Watermaster) has issued a Request for Proposals (RFP) requesting the services of a consultant to assist in the preparation of court-mandated activities and reporting. The requirements of the Court are set forth in the judgment entitled “San Timoteo Watershed Management Authority, vs. City of Banning, et al.,” Case No. RIC 389197, signed February 4, 2004 (Judgment). The Watermaster, as appointed by the Court, consists of a five-member committee formed by representatives from the Cities of Banning and Beaumont, the Beaumont-Cherry Valley Water District, the Yucaipa Valley Water District, and the South Mesa Water Company.



The duties of the Watermaster are comprehensive, and focus on enforcing the provisions of the Judgment. Some of the duties outlined in the Judgment that relate specifically to the RFP are listed in the following section.

2.1 DUTIES OF THE WATERMASTER

In order to assist the Court in the administration and enforcement of the provisions of the Judgment, Watermaster carries out court-mandated tasks in its mission to manage and maintain the health of the Beaumont Basin. The Rules and Regulations of the Beaumont Basin Watermaster form the framework for basin management and accountability.

Rules and Regulations: Per the Judgment, the Beaumont Basin Watermaster Rules and Regulations were adopted on June 8, 2004, amended on February 7, 2006 and again on September 9, 2008. The Rules and Regulations, among other items, set forth provisions for the following:

- The Annual Report,
- The Basin Condition Report,
- Ground water basin monitoring,
- Re-determination of operating yield,
- Re-determination of Safe Yield,
- Assessment of New Yield,
- Accounting of ground water recharge and replenishment, and
- Regulation and control of basin storage.

The scope of work set forth in the RFP lists the required tasks requested to assist Watermaster in annual monitoring and evaluation, and reporting of the ground water basin conditions. The project approach and scope of work in response to the RFP is presented below in Section 3.

SECTION 3

Project Approach & Scope of Work

SECTION 3 – PROJECT APPROACH AND SCOPE OF WORK

PROJECT APPROACH

All work performed as Watermaster staff (Project) will be conducted under the direction of Dr. Dennis Williams of GEOSCIENCE Support Services, Inc. Dr. Williams will be involved in all aspects of the Project, including the review of all technical work to ensure that the deliverables, analyses, and recommendations are sound. He will be assisted by Mr. Brian Villalobos of GEOSCIENCE who will provide project management and detailed quality control of all technical work and reports generated throughout the life of the Project. Mr. Joseph Kingsbury of GEOSCIENCE will be responsible for the day-to-day activities and will provide a focused point of contact to the Watermaster. Mr. Kingsbury will assure that all Project deliverables are on track to meet the required deadlines.

Management keys that will ensure a smooth Project include the following:

- **Effective Ongoing Communication** with the Beaumont Basin Watermaster member agencies and key contact people to ensure that all sources of data are identified and relevant issues important to the member agencies are addressed.
- **Knowledge** of the geohydrology and ground water producers of the Beaumont Basin. GEOSCIENCE has worked with several of the Parties to the Judgment on various water resource projects within the Beaumont Basin. Types of work include:
 - Geohydrologic investigation, design, and construction of the Beaumont-Cherry Valley Recharge Facilities;
 - Siting, design, and construction of municipal wells; and,
 - Consultation in the RWQCB's Maximum Benefits Program for the Beaumont Management Zone.
- **Use of Appropriate Tools** to manipulate and present data - GEOSCIENCE regularly utilizes Microsoft Access (database software) in conjunction with the ESRI ArcMap GIS platform. These tools allow for both the manipulation and analysis of large amounts of data in a short amount of time, increasing the overall efficiency of the Project.
- **Experience** on similar projects - GEOSCIENCE has conducted, and continues to conduct, numerous ground water basin evaluations in Southern California. This experience includes the development of ground water flow and solute transport models of varying complexity. It also includes projects that require considerable collaboration and coordination with water districts, Watermaster services, private and public water agencies, and regulatory agencies.

SCOPE OF WORK

The following sections provide a description of GEOSCIENCE's understanding of the requirements for the following seven (7) tasks listed in the RFP.

1. TASK 1 Data Collection
2. TASK 2 Preparation of Annual Report
3. TASK 3 Annual Determination of Operating Safe Yield (to be included in Annual Report)
4. TASK 4 Review of Rules and Regulations
5. TASK 5 Basin Condition Report (to be Included in Annual Report)
6. TASK 6 Meeting Attendance
7. TASK 7 Miscellaneous Special Projects

Task 1 Data Collection

Subtask 1.1 Kick-Off Meeting

GEOSCIENCE recognizes that the success of the Project depends on effective communication with all Beaumont Basin Watermaster member agencies. To this end, a primary objective of the Project kick-off meeting will be to meet face-to-face with key individuals of the Beaumont Basin Watermaster for the purpose of clarifying the data needs and expediting the data collection process. The main benefit of an early meeting is to establish personal contacts and direct lines of communication. We assume that the kick-off meeting will take place at the offices of Beaumont Cheery Valley Water District. Other objectives of the kick-off meeting include, but are not necessarily limited to:

1. Clarification of key issues for the Project,
2. Clarification (and refinement as necessary) of the scope of work based on the key issues identified,
3. Discussion of existing electronic database(s) and preferences regarding data format and presentation,
4. Discussion regarding preferred format used for the production of deliverables (e.g., annual reports, technical and/or administrative memorandums, Board meeting packets).

Subtask 1.2 Data Collection and Compilation

In addition to compiling data obtained as a result of the kick-off meeting and otherwise provided by Watermaster and its consultants, GEOSCIENCE will personally visit the office of each Beaumont Basin Watermaster member agency to meet with staff and obtain all geohydrologic data, well construction data, facilities modifications, and any other available background information regarding the Beaumont Basin.

It is understood that data currently collected by Watermaster in order to prepare all reports, technical/administrative memorandums, and any other deliverable as required by the Judgment includes the following:

- Monthly water production for ground water wells in the Beaumont Basin consistent with prior reports. We understand that Information is generally available from the member agencies, San Gorgonio Pass Water Agency, or San Bernardino Valley Municipal Water District.
- Monthly imported water recharge quantity by each Party within the Beaumont Basin.
- Monthly rainfall at locations in the area from the USGS, Army Corps of Engineers, and/or the National Weather Service.
- Monthly static ground water levels at dedicated monitoring wells and selected production wells.
- Monthly deliveries of imported water, ground water from other basins, and/or surface water diversions from applicable water providers.
- Semi-annual (Spring and Fall timeframe) static ground water levels from production wells from data provided by the parties.
- Annual water quality from production wells from data provided by the parties.

It is anticipated that these data could be in hardcopy, electronic, or graphical format. GEOSCIENCE will ensure that all data is compiled and/or converted into accurate, quality-controlled electronic data that is compatible with the selected database system.

Subtask 1.3 Update and Maintenance of Computer Database

A Microsoft Access or other similar database software that is agreed upon at the kick-off meeting will be developed as the storage facility for all data listed above. GEOSCIENCE recognizes that a database is likely to be in existence that suits the needs of this Project, and may only require some refinement and specific customization. However, should the existing database(s) be found to be insufficient with regard to their design, a completely new database will be developed to include all aspects of the Project. The design of the database will be such that it is user-friendly (through customization of the interface) and has built-in quality control measures. In summary, the important aspects of the design of the database will be its ability for the following:

- User-friendly and rapid data entry;
- Downloading and converting of data;
- Meaningful data queries; and,
- Generating custom summary reports.

All data collected at the kick-off meeting, and subsequently from the individual Beaumont Basin Watermaster member agencies will be compiled and entered into the database. All data will

undergo stringent Quality Control/Quality Assurance (QA/QC) as described in Section 4 of this proposal.

In addition to the database, a geographical information system (GIS) will be developed and integrated with the database in order to spatially represent the data. All time-series data (e.g., water levels, production, water quality, etc.) will be linked to the physical features of the Beaumont Basin, such as existing spreading grounds, pumping and monitoring wells, precipitation gages, and facilities. GEOSCIENCE routinely uses this procedure of data storage, retrieval, visualization, and analysis for other project work. This approach allows large amounts of data to be manipulated and represented in a short amount of time, saving our clients time and money.

The database that will be maintained by GEOSCIENCE will be accessible only to personnel who are trained and experienced with database systems. Training will include the basics of the application of databases, and more importantly the operation, updating and maintenance of the database.

An instructional document will be prepared by GEOSCIENCE, which will include step-by-step procedures for data entry, updating the database by appending other database tables, making standardized or customized queries, and preparing charts. The document will include instructional snap-shots of the database for all its functions. All instructional documents will be stored on GEOSCIENCE's local network in PDF format.

Subtask 1.4 Deliverables

Prior to the kick-off meeting, GEOSCIENCE will issue a letter request for well construction and inventory data to each Beaumont Basin Watermaster member agency. The types of data to be requested will include:

- Well Construction Details
 - Reference Point Elevation
 - Year Drilled/Constructed
 - Total Depth
 - Perforation Intervals
 - Flow Meter and Type
- Well Status
 - Active/Inactive/Abandoned/Destroyed

Attached to the initial letter request for data will be the kick-off meeting agenda. The request letter and agenda will be issued at least ten working days prior to the kick-off meeting to allow agencies time for scheduling. The letter and agenda will be issued in hard copy and electronic (PDF) formats.

Within five working days following the kick-off meeting, GEOSCIENCE will distribute one hard copy and one PDF electronic copy of the kick-off meeting minutes to the points-of-contact identified for each Watermaster member agency.

Task 2 Beaumont Basin Watermaster Annual Report

Subtask 2.1 Preparation of Annual Report

Using data already assembled by Watermaster, GEOSCIENCE will prepare the annual report for calendar year (CY) 2011 using the data acquired from Task 1. The report will document all items as described in Task 2 of the Scope of Work provided in the RFP for this Project.

Subtask 2.2 Deliverables

GEOSCIENCE will distribute a draft version of the Annual Report (in hard copy) to each member agency of the Board of Directors and participating agencies for review and comment (total of 25 color copies). GEOSCIENCE will finalize the Annual Report upon receipt and incorporation of comments. A total of 25 color copies of the final version of the Annual Report (in hard copy) will be distributed in the same manner as the draft version.

Task 3 Preliminary Operating Safe Yield

Subtask 3.1 Preparation of Annual Determination of Operating Safe Yield Technical Memorandum

GEOSCIENCE will prepare the preliminary operating safe yield technical memorandum for CY 2011. The estimated annual operating safe yield (OSY) will be derived from an annual hydrologic balance calculation. The report will document all items as described in Task 3 of the Scope of Work provided in the RFP for this Project.

Subtask 3.2 Deliverables

GEOSCIENCE will prepare a color draft version of the technical memorandum (in hard copy) for presentation to Watermaster for review and comment. GEOSCIENCE will finalize the technical memorandum upon receipt and incorporation of comments, and include the final version in the Annual Report.

Task 4 Watermaster Rules and Regulations

Subtask 4.1 Review of Rules and Regulations

GEOSCIENCE will review the September 2008 version of the the Rules and Regulations (R&R). The purpose of the R&R is to provide documentation of the role of Watermaster, the selection

process and roles of its appointed officers, required meetings, its duties under the Judgment, and a court review of its actions in the Beaumont Basin. Therefore, the review process performed by GEOSCIENCE will determine whether it reflects current policies/practices and to make recommendations for the update of these documents, as needed. Subsequent reviews will be conducted annually during the period of contract.

Subtask 4.2 Deliverables

In the event that GEOSCIENCE determines the need to update the R&R, a color copy of a draft memorandum (in hard copy) will be presented to the Board of Directors for review and comment. In the event the Board decides to adopt the recommended update(s), GEOSCIENCE will finalize the memorandum upon receipt and incorporation of comments, and present a final color hard copy to the Board in the same manner as the draft version.

Task 5 Assessment of Beaumont Basin Condition

Subtask 5.1 Preparation of Basin Condition Technical Memorandum

GEOSCIENCE will coordinate with all Parties to the Judgment that produce ground water from the Beaumont Basin and collect selected water quality data on an annual basis. The data will be used by Watermaster to assess the state of the Beaumont Basin.

In an effort to keep the Watermaster well informed of contaminant sites within the Beaumont Basin, GEOSCIENCE will routinely (i.e., at least once every quarter) monitor the California State Water Resources Control Board's website (GeoTracker) for any new leaking underground fuel tanks (LUFT), Department of Defense (DoD), Spills-Leaks-Investigations-Cleanups (SLIC), and landfill sites. GeoTracker allows for quick and easy assessment to information about any LUFT, Underground Storage Tank (UST), Above Ground Tank (AGT), SLIC, DoD, or landfill site.

Subtask 5.2 Deliverables

Water quality data will be summarized in the Basin Condition Technical Memorandum. GEOSCIENCE will prepare a color draft version of the technical memorandum (in hard copy) for presentation to Watermaster for review and comment. GEOSCIENCE will finalize the Basin Condition Technical Memorandum upon receipt and incorporation of comments, and include the final version in the 2011 Annual Report as set forth under Task 2.

Task 6 Watermaster Meetings

Subtask 6.1 Preparation of Meeting Packet Materials and Attendance

GEOSCIENCE will prepare for, attend, and participate during a minimum of six (6) regular Watermaster Board meetings within a calendar year. At least one week prior to each Board

meeting, GEOSCIENCE will prepare and distribute Board meeting packet materials to each Board member. At a minimum, the packet will contain:

- Technical reports or presentations that are applicable to basin management or other Judgment considerations,
- Miscellaneous items/comments or information requests from Watermaster Parties as requested by Watermaster,
- Future agenda items.

It is understood that the regular Board meetings will be held in Beaumont-Cherry Valley Water District's boardroom.

Subtask 6.2 Deliverables

GEOSCIENCE will prepare and distribute the selected number of meeting packets (color hard copy) via standard mail one week prior to each scheduled regular Watermaster Board meeting.

Task 7 Miscellaneous Special Projects

Subtask 7.1 Miscellaneous Special Projects

It is understood that Watermaster may, at times, require GEOSCIENCE to provide technical and/or administrative services for special projects. We understand that prior to initiating projects or additional work, authorization will be provided by the Watermaster committee.

Subtask 7.2 Deliverables

Since it is not possible to estimate the level of effort (and therefore cost) for these potential special projects, as requested by the RFP, GEOSCIENCE's hourly rate schedule (i.e., Fee Schedule) has been added to the proposed total annual cost under separate cover.

SECTION 4

Data Quality Control, Security, & Access

SECTION 4 – DATA QUALITY CONTROL, SECURITY, AND ACCESS

Quality Control

Data entered either manually (typed in) or electronically into the database will be printed out and compared to the source. The printout will be initialed and dated when the quality control review is performed and when corrections are made to the data file. If discrepancies occur, the entire data entry process will be reviewed, corrected, and re-executed. If no discrepancies occur, a document will be produced listing the date of the comparison, and the individual responsible for performing the quality control review.

Security

Proper back-up and security measures must be taken to prevent accidental loss of data and tampering with the database. Exact duplicates (i.e., replication) of the database files will be made at least once a month (preferably after each work session) to a re-writable compact disc. The backup database disc will be stored in a fire-proof container located in a dedicated storage room on the premises of GEOSCIENCE's office that will be under lock and key after close of business.

Submission of Data and Access to Data

In accordance with the RFP requirement, "following approval of the final annual report, all data collected and tabulated shall be provided in a data base format. Digital files in a native format (.docx, .doc, .xlsx, .xls, .ppt, .pptx, etc...) of all draft documents, spreadsheets, presentations and other related information shall be submitted to the Secretary of the Watermaster within thirty days of the adoption of the annual report."

In addition, GEOSCIENCE will make all database files available for inspection and copying by the Watermaster representatives during normal business hours. Watermaster will have the ability to remotely access the electronic database through a File Transfer Protocol (FTP) that will be provided and maintained by GEOSCIENCE. Access to the FTP will be via username and password on a 24-hour, seven days a week basis.

As an optional means for the Watermaster member agencies to access the database, an online (i.e., internet) portal could be designed and developed that would allow password-protected access from any electronic device (e.g., PC/MAC, iPad, smart phone, etc.) that has access to the internet.

SECTION 5

Qualifications, Capabilities, & Experience

SECTION 5 – QUALIFICATIONS, CAPABILITIES, AND EXPERIENCE



GEOSCIENCE

Services and Capabilities:

- Ground water Flow and Solute Transport Modeling (Using MODFLOW, MODPATH, MT3D, SEAWAT, HSPF among others]
- Consultant on Legal Issues, Expert Witness
- Ground water Management – Evaluation and Planning
- Basin Characterization
- Basin Management Plans
- Artificial Recharge Studies
- Production Well Location, Technical Specifications, and Supervision of Construction
- Water Supply Issues
- Ground water Resource Assessments
- Ground water Quality Studies and Remediation
- Ground water Contamination Studies
- Evaluation of Subsidence due to Ground water Withdrawal
- Beach Well Intake for Desalination Plant Systems
- Water Rights Issues
- GIS

GEOSCIENCE is an established geohydrologic consulting firm specializing in ground water resource planning, development, management, and protection. Through the use of state-of-the-art tools and analytical techniques, backed by proven scientific methodology and over three decades of experience in Southern California ground water basins, GEOSCIENCE continues to maintain its place at the forefront of technology in the area of ground water modeling, ground water studies, basin management, and expert witness consulting.

GEOSCIENCE is a privately owned, California corporation, and has been in continuous operation since its establishment in 1978. Over the past 32 years, GEOSCIENCE has played a leading role in solving

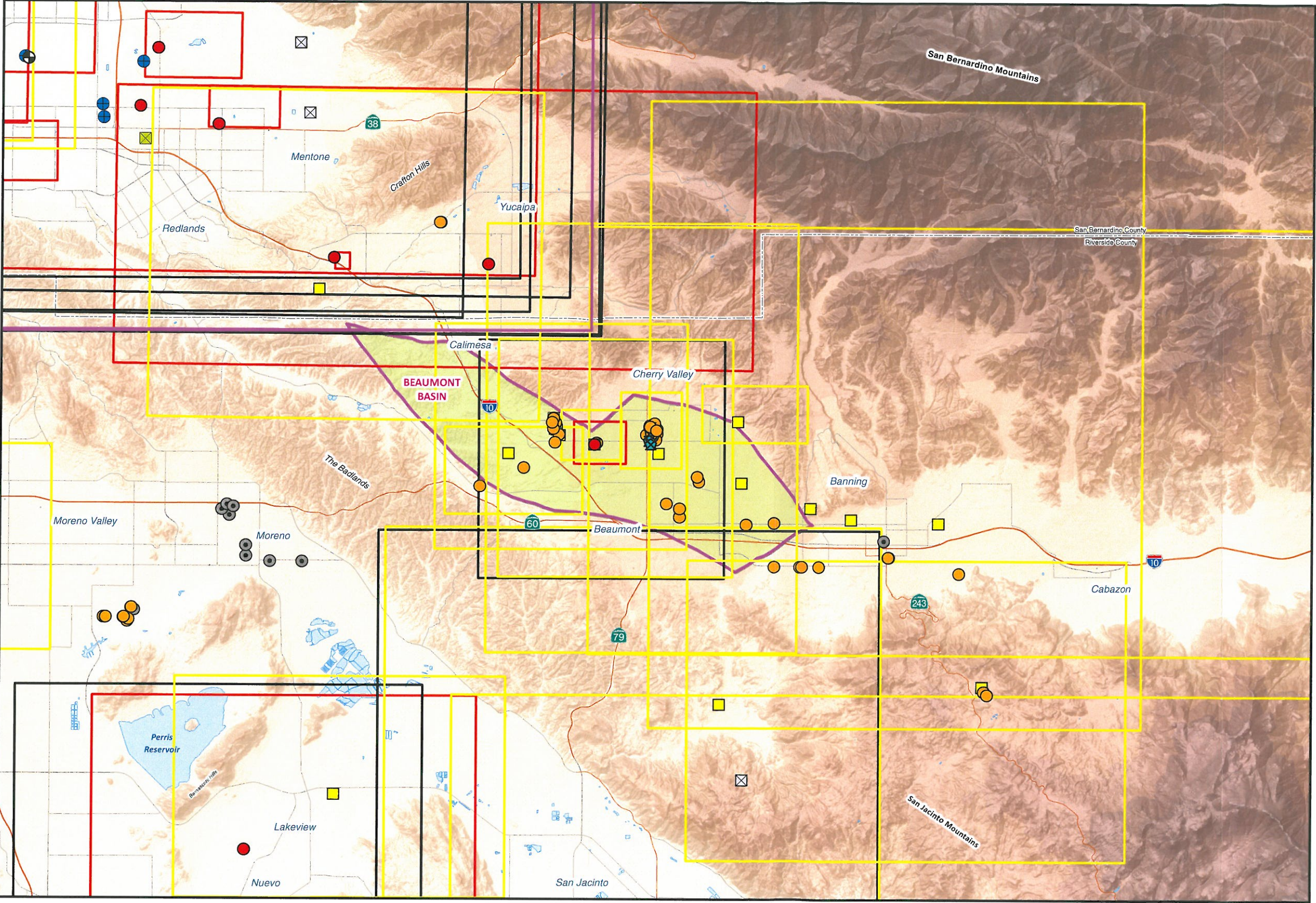
water resource problems for cities and water districts in Southern California, including clients in Los Angeles, San Bernardino, Riverside, and Orange Counties, --such as the Rancho California Water District, Beaumont-Cherry Valley Water District, City of Banning, San Bernardino Valley Municipal Water District, Metropolitan Water District of Orange County, City of Riverside, as well the Raymond Basin Management Board, Monte Vista Water District, the Jurupa Community Services District, the West Valley Water District, and the Chino Basin Water Conservation District.

GEOSCIENCE has successfully conducted ground water basin assessments and models in most ground water basins in Southern California. We have complied previous projects completed by GEOSCIENCE in the sphere of influence of the Beaumont Basin. The project locations are shown on the map (next page of this proposal) followed by a table listing project type and client.

Keys to the success of these basin-wide studies include: 1) knowledge of the geohydrology of the basin of interest, 2) knowledge of the basin management environment including issues and concerns, 3) an accurate and comprehensive database, 4) geographic information systems (GIS) for data analysis and display, 5) appropriate and adequately calibrated modeling tools, and 6) consistent communication among project team members, client, and stakeholders.

All of GEOSCIENCE projects are directed by Dr. Dennis Williams, who is the President and Founder of the company. Dr. Williams has a Ph.D. in ground water hydrology and over 35 years of experience in ground water related projects. GEOSCIENCE's staff of 20 professionals includes seven State of

GEOSCIENCE EXPERIENCE
NEAR THE
BEAUMONT BASIN



EXPLANATION

Beaumont Basin Boundary
(Source: RFP Exhibit A)

GEOSCIENCE Project Classification

- Geohydrologic Studies / Safe Yield
- Artificial Recharge / Conjunctive Use
- Ground Water Management / Monitoring / Subsidence
- Ground Water Modeling
- Litigation Consulting / Expert Witness
- Special Ground Water / Surface Water Investigation
- Water Quality / Landfills / Contamination / Wellhead Protection
- Well Design / Specifications / Analysis / Construction Supervision
- Well Site Investigations

Boxes indicate study area boundaries.

County Boundary

16-Apr-12

Prepared by: DWB. Map Projection: UTM 1927, Zone 11

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GEOSCIENCE

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P.O. Box 220, Claremont, CA 91711
Tel: (909) 451-6650 Fax: (909) 451-6638
www.gssiwater.com

Figure 1

GEOSCIENCE REPRESENTATIVE WELL PROJECTS

| Date | Client | Report Title | Primary Type of Project | Secondary Type of Project |
|-----------|--|---|--|------------------------------------|
| | Engstrom, Lipscomb & Lack | Redlands Tort Litigation | Litigation Consulting / Expert Witness | |
| | Metropolitan Water District of Southern California | Litigation brought against WD by Soboba Band | Litigation Consulting / Expert Witness | |
| 4/1/1986 | Sunny-Cal Egg and Poultry, Inc. | Hydrogeologic Investigation Of Sunny-Cal Egg Ranch Area | Geohydrologic Studies / Safe Yield | |
| 5/1/1987 | Sunny-Cal Egg and Poultry, Inc. | Water Source Investigation Sunny-Cal Ranch Well No. 3 | Special Ground Water / Surface Water Investigation | |
| 1/1/1988 | Sunny-Cal Egg and Poultry, Inc. | Hydrologic Note On Ground Water Supplies Of The Sunny-Cal Egg Ranch | Special Ground Water / Surface Water Investigation | |
| 11/1/1988 | Sunny-Cal Egg and Poultry, Inc. | Ground Water Model Of Future Impact From Pumping Sunny-Cal Well No. 3 | Ground Water Modeling | |
| 1/1/1990 | City of Banning | Hydrogeologic Investigation & Well Site Selection - City Of Banning Area, Riverside County, CA | Well Site Investigations | Geohydrologic Studies / Safe Yield |
| 8/1/1990 | Black & Veatch | Ground Water Impacts From Construction Of Surface Storage Reservoirs At Potrero, Domenigoni & Vail Sites, Riverside Co. | Geohydrologic Studies / Safe Yield | Ground Water Modeling |
| 2/1/1991 | City of Banning | Water Wells C-4, C-5, C-6, And R-1 Results Of Drilling, Testing & Recommended Pump Design | Well Design / Technical Specifications / Analysis / Construction | |
| 7/29/1994 | Rutan and Tucker Attorneys | Preliminary Geologic Assessment Seven Oaks Dam Condemnation Area - DRAFT | Special Ground Water / Surface Water Investigation | |

GEOSCIENCE REPRESENTATIVE WELL PROJECTS

| Date | Client | Report Title | Primary Type of Project | Secondary Type of Project |
|------------|---------------------------------------|--|--|---|
| 2/2/2004 | High Valleys Water District | Recommended Well Sites for the High Valleys Water District | Geohydrologic Studies / Safe Yield | |
| 2/25/2004 | Beaumont-Cherry Valley Water District | Geohydrologic Impact Evaluation of Proposed Beaumont-Cherry Valley Water District Well 24 | Geohydrologic Studies / Safe Yield | |
| 5/1/2005 | High Valleys Water District | Contract Documents for Drilling, Constructing and Testing - McMullen Flat Production Well | Well Design / Technical Specifications / Analysis / Construction | |
| 2/16/2005 | The Keith Companies | Results of Well Search Related to the Sunny-Cal Egg Ranch Property and the Danny Thomas Ranch Property | GW Issues & Other | |
| 2/25/2005 | Beaumont-Cherry Valley Water District | Results of Drilling, Construction, Development and Testing of Well 24 | Well Design / Technical Specifications / Analysis / Construction | |
| 3/23/2005 | Best, Best & Kreiger | Estimate of Present Value of Wells at Sunny-Cal Egg Ranch and Danny Thomas Ranch, Riverside County, California | Well Design / Technical Specifications / Analysis / Construction | |
| 5/19/2005 | Beaumont-Cherry Valley Water District | Detailed Technical Specifications for Drilling, Construction, Developing and Testing Well 26 | Well Design / Technical Specifications / Analysis / Construction | |
| 5/27/2005 | Beaumont-Cherry Valley Water District | Ground Water Recharge Implementation Plan - Noble Creek Artificial Recharge Facility | Artificial Rech / Conjunctive Use | Ground Water Management / Monitoring / Subsidence |
| 7/8/2005 | Beaumont-Cherry Valley Water District | Detailed Technical Specifications for Drilling, Constructing and Testing - Well No. 2A | Well Design / Technical Specifications / Analysis / Construction | |
| 10/20/2005 | Beaumont-Cherry Valley Water District | Detailed Technical Specifications for Drilling, Constructing and Testing Well 27 | Well Design / Technical Specifications / Analysis / Construction | |

GEOSCIENCE REPRESENTATIVE WELL PROJECTS

| Date | Client | Report Title | Primary Type of Project | Secondary Type of Project |
|------------|---|---|--|---------------------------|
| 1/24/2006 | Beaumont-Cherry Valley Water District | DWSAP Permit for Beaumont-Cherry Valley Water District Well 24 | Water Quality / Landfills / Contamination / Wellhead Protection | |
| 11/16/2005 | Beaumont-Cherry Valley Water District | Detailed Technical Specifications for Drilling, Constructing and Developing of Cluster Monitoring Wells MW-3, MW-4, and MW-5 | Well Design / Technical Specifications / Analysis / Construction | |
| 12/13/2005 | High Valleys Water District | Results of Drilling, Construction, and Testing of McMullen Flat Production Well | Well Design / Technical Specifications / Analysis / Construction | |
| 4/6/2010 | Beaumont-Cherry Valley Water District | Contract Documents for Drilling, Construction and Developing Clustered Monitoring Wells MW-3, MW-4, and MW-5 | Well Design / Technical Specifications / Analysis / Construction | |
| 7/25/2006 | Beaumont-Cherry Valley Water District | Results of Inspection and Performance Testing of Sunny Cal Egg Ranch Well No. 4 - Beaumont, CA | Well Design / Technical Specifications / Analysis / Construction | |
| 8/14/2006 | Beaumont-Cherry Valley Water District | Results of Drilling, Constructing, Development and Testing of Well 26 | Well Design / Technical Specifications / Analysis / Construction | |
| 12/21/2006 | Beaumont-Cherry Valley Water District | Results of Drilling, Construction, Development and Testing of Well 25 | Well Design / Technical Specifications / Analysis / Construction | |
| 12/22/2006 | Beaumont-Cherry Valley Water District | Technical Memorandum Updated Progress of Artificial Recharge Activities at the Noble Creek Artificial Recharge Facility | Artificial Rech / Conjunctive Use | |
| 1/26/2007 | Beaumont-Cherry Valley Water District | Results of Drilling, Construction and Testing Clustered Monitoring Wells MW-3, MW-4 and MW-5 Noble Creek Artificial Recharge Facility | Well Design / Technical Specifications / Analysis / Construction | |
| 4/23/2007 | RBF Consulting, Inc. / Moreno Valley Properties, LP | Detailed Technical Specifications for Drilling, Construction, Development and Testing of Aquabella Well Nos. 1 and 2 | Well Design / Technical Specifications / Analysis / Construction | |

GEOSCIENCE REPRESENTATIVE WELL PROJECTS

| Date | Client | Report Title | Primary Type of Project | Secondary Type of Project |
|------------|---|--|---|--|
| 1/8/2010 | Beaumont-Cherry Valley Water District | Noble Creek Artificial Recharge Facility Third Quarter 2009 Ground Water Monitoring Report (July 16 to September 30, 2009) | Well Design / Technical Specifications / Analysis / Construction | Artificial Rech / Conjunctive Use |
| 3/12/2010 | Western Municipal Water District | Sensitivity to Prolonged Dry Base Period and Land Subsidence Modeling Riverside-Corona Feeder Project Conjunctive Use Scenarios | Ground Water Modeling | Ground Water Management / Monitoring / Subsidence |
| 2/9/2010 | Beaumont-Cherry Valley Water District | Noble Creek Artificial Recharge Facility Fourth Quarter 2009 Ground Water Monitoring Report (October 1 to December 20, 2009) | Well Design / Technical Specifications / Analysis / Construction | Artificial Rech / Conjunctive Use |
| 3/12/2010 | Western Municipal Water District | Groundwater Modeling of TDS and Nitrate-Nitrogen Concentrations Riverside-Corona Feeder Project Conjunctive Use Scenarios | Ground Water Modeling | |
| 10/8/2010 | Kennedy/Jenks Consultants - City of Riverside | Potential Perchlorate and Nitrate Concentrations for North Waterman Wells Projects Area City of Riverside - Riverside Public Utilities | Water Quality / Landfills / Contamination / Wellhead Protection | |
| 11/22/2010 | City of Banning | Maximum Perennial Yield Estimates for the Banning and Cabazon Storage Units, and Available Water Supply From the Beaumont Basin, San Geronio Pass Ground Water Basin, Riverside County, California | Geohydrologic Studies / Safe Yield | |
| 7/22/2011 | City of Banning | City of Banning 2010 Urban Water Management Plan | Geohydrologic Studies / Safe Yield | |
| 6/17/2011 | Western Municipal Water District | DRAFT - Response to Selected Comments on Draft Supplemental Environmental Impact Report and Environmental Impact Statement for the Riverside-Corona Feeder Project | Ground Water Issues & Other | |
| 6/17/2011 | Western Heights Water Company | Review of "Sorenson Engineering, Inc. Proposed Scope for Subsurface Investigation to Delineate Lateral and Vertical Extent of PCE; Fate and Transport Modeling: Installation of Sentinel Wells into Regional Aquifer," dated November 30, 2011, Prepared by JE Compliance Services, Inc. | Water Quality / Landfills / Contamination / Wellhead Protection | |
| 4/10/2012 | Western Heights Water Company | Technical Memorandum - DRAFT - Geohydrologic Evaluation for Municipal Well Siting, Mistretta and Jacinto Properties, Yucaipa Area, San Bernardino County, California | Geohydrologic Studies / Safe Yield | |

WATERMASTER CONTRACTUAL TERMS AND CONDITIONS

In summary, the GEOSCIENCE Team is highly qualified to provide the necessary knowledge and know-how to consistently and successfully provide the administrative and technical services that the Beaumont Basin Watermaster requires.

EXPERIENCE



Client: Raymond Basin Management Board

Reference: Mr. Anthony Zampielo,

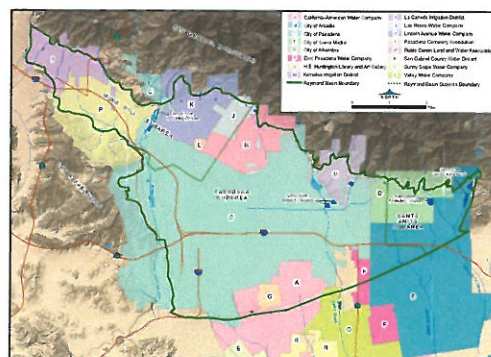
Telephone: (626) 815-1300

Date: 2004-05; 2009-10

Management of the ground water resources in the Raymond Basin is conducted by the Raymond Basin Management Board through their Long-Term Storage Program, originally drafted in 1990. GEOSCIENCE conducted a study to update the Long-Term Storage Program by compiling historical geohydrologic data for the basin, creating a geohydrologic database for the basin, and using the more complete database to evaluate the effectiveness of the Long-Term Storage Program. This study provided a baseline from which to develop a conjunctive use strategy for future ground water storage.

The scope of this investigation included:

- A baseline investigation including comprehensive review of past documentations and a review and update of existing water facilities, infrastructure, and systems;



- Collection and compilation of geohydrologic data, facilities information and other background information;
- Development of a computer database (MS Access);
- Evaluation of long-term storage effects on ground water levels and quality;
- Development of a basin-wide monitoring program including designing network of monitoring wells and outlining a standard method for data collection; and
- Investigation of existing conjunctive use activities in the area as well as development of a strategy for future conjunctive use and storage opportunities.

GEOSCIENCE also provides assistance in the generation of various figures for the Raymond Basin Management Board's Annual Report. This work includes updating the Raymond Basin Geohydrological Database with reported municipal production, static water level and selected water quality data.



Project: Integrated Ground Water and Streamflow Model of the Murrieta-Temecula Ground Water Basin

Client: Rancho California Water District

Address: 42135 Winchester Rd., Temecula, CA 92590

Reference: Mr. Craig Elitharp, Director of System Operations

Telephone: (951) 296-6900

Date: 1995 - present

OVERVIEW:

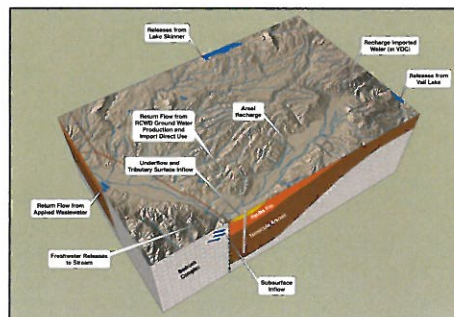
The Rancho California Water District (RCWD) overlies a ground water basin encompassing approximately 90-square miles of area in Riverside County, CA. Approximately half of the annual water needed by the District is produced from saturated alluvial deposits through a system of 100 deep wells. Between 1995 and 2002, an integrated ground water and streamflow model was developed for the Murrieta-Temecula Ground Water Basin located at the upper part of the Santa Margarita River Watershed.

The primary purpose of the model is to help resolve water-right controversies between the RCWD, located in the upper part of the watershed, and the Camp Pendleton Marine Corps Base, located in the lower part of the watershed. Much of the legal controversy focuses on the quantity, timing, and quality of flow in the Santa Margarita River at the "Gorge", a gap in the coastal mountains that separates the upper part of the watershed from the lower part. The model is used as one of the District's ground water management tools to evaluate proposed ground water management schemes on a basin-wide level.

GEOSCIENCE'S ROLE:

Selected scope of work includes:

- Compilation and analysis of geohydrologic data;
- Develop and calibrate integrated ground water and streamflow model;
- Provide technical support to subconsultant for the development of a 3-Dimensional lithologic model of the ground water basin;
- Develop and run model scenarios;
- Provide overall coordination with Technical Advisory Committee (TAC) members, including the U.S. Geological Survey, RCWD, Camp Pendleton, Stetson Engineers, Inc., and the Santa Margarita River Watershed Watermaster. During model development, more than 30 model workshops have been conducted to present and discuss ongoing modeling results and to address reviews and comments from TAC members; and
- Schedule and prepare agenda and minutes for model workshops; develop action items and maintain a project-specific File Transfer Protocol (FTP).

**Project: East Raymond Basin Water Resources Plan**

Client: Cities of Arcadia and Sierra Madre

Address: 11800 Goldring Rd, Arcadia, CA 91006

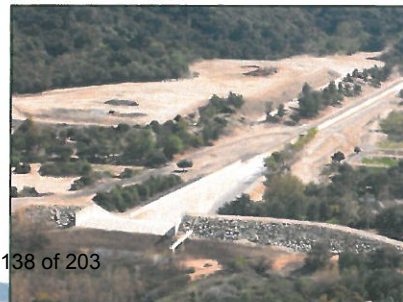
Reference: Mr. Pat Malloy (City of Arcadia)

Telephone: (626) 256-6584

Date: 2004-06

OVERVIEW:

The East Raymond Basin Water Resources Plan was the result of a federal EPA grant that has enabled the Cities of Arcadia and Sierra Madre to investigate the potential to develop additional ground water supplies for the Cities through improvements and possible expansion of the existing Santa Anita spreading basins; operational improvements to the Sierra Madre spreading basins; as well as consideration of importing water for artificial recharge.



The economic viability of a number of project alternatives was also evaluated as part of the study.

GEOSCIENCE'S ROLE:

The work consisted of a comprehensive data collection and assessment of existing documents and data relating to the East Raymond Basin (ERB). In order to develop conceptual programs and project alternatives to enhance ground water replenishment, a number of specific basin management aspects were evaluated. These included:

- Evaluation of hydrology of the watersheds tributary to the ERB;
- Spreading basin optimization (Santa Anita and Sierra Madre spreading grounds);
- Projected 20-year extractions of water for the Cities of Arcadia and Sierra Madre;
- Safe yield analysis of the ERB;
- Potential sources of imported and/or additional recharge water; and
- Cost-benefit analyses.

Other issues included in the Water Resources Plan were a water rights allocation strategy, preliminary environmental review, and an economic base study.



Project: Maximum Perennial Yield Estimates for the Banning and Cabazon Storage Units, and Available Water Supply from the Beaumont Basin

Client: City of Banning

Address: 99 E. Ramsey St., Banning, CA 92220

Reference: Mr. Duane Burk, Director of Public Works

Telephone: (951) 922-3130

Date: 2010

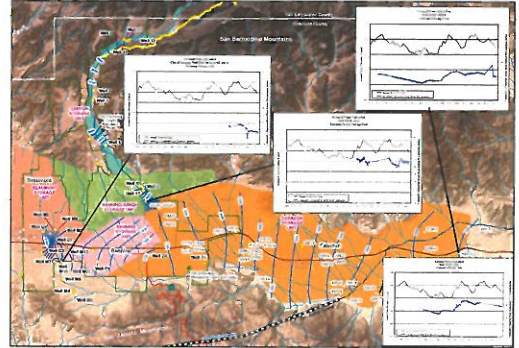
OVERVIEW:

The City of Banning water resource area consists of approximately 158-square miles located within the San Geronio Pass Area, in Riverside, CA. Ground water recharge to the Banning area is obtained from precipitation infiltrating into the ground within the surface water catchments and particularly in the canyons north of the City. In this project, GEOSCIENCE determined the maximum perennial yield of the City of Banning water resource area and the anticipated future available water supply from the Beaumont Basin.

GEOSCIENCE'S ROLE:

The project consisted of the following principal phases of work:

- Comprehensive analysis of previous studies, and collection of current data;
- Evaluation of data to delineate the aquifer systems in the ground water resource area of the City of Banning;
- Preparation of a detailed geohydrologic basemap;
- Evaluation of the maximum perennial yield using multiple methods for the Banning Storage Units;
- Evaluation of the maximum perennial yield using the hydrologic budget method for the Cabazon Storage Unit;
- Assessment of anticipated available water supply from the Beaumont Basin; and
- Preparation of a final summary report.



The final report provided several recommendations to increase the available water supply, including the potential capture of Stormwater run-off from mountain front watersheds and capture of urban run-off. Measures to ensure the protection of the basin and the quality of water produced from the basin were also provided. Recommended future ground water management strategies included development of a ground water flow model and an annual ground water audit for long-term planning and operation of the basin.

SECTION 6

References

SECTION 6 – REFERENCES

To assist the Watermaster in determining GEOSCIENCE's fitness to perform a contract are five (5) recent references from clients. These references were prepared for an RFQ for the Metropolitan Water District of Southern California; however, the comments provided by our clients for that RFQ are relevant to the Watermaster in assessing the accountability and reliability of GEOSCIENCE as a firm. We pride ourselves on our responsiveness to our clients, and the attached references attest to that fact. The references provided are:

1. Mr. Bob Tinchler, Manager of Engineering and Planning. San Bernardino Valley Municipal Water District, 380 East Vanderbilt Way, San Bernardino, CA 92408. Telephone: (909) 387-9215
2. Mr. Jack Safely, Director of Water Resources. Western Municipal Water District, 450 E. Alessandro Boulevard, Riverside, California 92508. Telephone: (951)-789-5041
3. Mr. Craig Elitharp, Director of Systems Operations. Rancho California Water District, 42135 Winchester Road, Temecula, California 92589-9017. Telephone: (951) 296-6955
4. Mr. Richard Bell, Principal Engineer. Municipal Water District of Orange County, 18700 Ward Street, Fountain Valley, CA 92708. Telephone: (714) 593-5003
5. Mr. Doug Headrick, Deputy General Manager. San Bernardino Valley Municipal Water District, 380 East Vanderbilt Way San Bernardino, CA 92408. Telephone: (909) 387-9226

REFERENCE FORM
For Request for Qualifications (RFQ) No. 910

PART A

Respondent's Company Name:
GEOSCIENCE Support Services, Inc.

Contact Name: Dennis Williams

Telephone No.: 909-451-6650

E-mail: dwilliams@geoscience-water.com


Signature

PART B

The above listed firm is responding to a Request for Qualifications for a qualified and experienced Consultant to provide expertise in any of the areas of economics, econometrics/statistical evaluation, resource planning, water resource issues, and resource cost evaluation on an as-needed basis.

You may either (1) complete Part B, or (2) confirm the information provided in Part B by the Respondent is accurate, by signing and returning the completed form to the Respondent.

THIS COMPLETED FORM MUST BE RETURNED TO THE RESPONDENT FOR THEIR INCLUSION INTO THEIR REQUEST FOR QUALIFICATIONS SUBMITTAL. REFERENCE FORMS SENT DIRECTLY TO METROPOLITAN WILL NOT BE CONSIDERED, RETURNED, OR FORWARDED TO THE RESPONDENT.

Reference Company Information:

Name: San Bernardino Valley Municipal Water District

Address: 380 East Vanderbilt Way, San Bernardino, CA 92408

Contact Name: Mr. Bob Tincher

Telephone No.: 909-387-9215

E-mail: bobt@sbvmwd.com

Term of Contract: From Sept 2005

To: Present

Monetary Amount of Contract \$ 755,655

Total fees received (or projected) from services provided: \$ 755,655

Description of Services Provided:

Preparation of San Bernardino Basin Area, Refined Basin Flow Model and Solute Transport Model

Rate Overall Performance:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

They are one of, if not the, top firms that we work with.

Rate Responsiveness to Requirements, Submission of Reports:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

Extremely responsive to project requirements and adhering to schedule.

Rate Company Personnel, Subconsultants, Quality and Accuracy of Work:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

I have the highest degree of confidence in their work. The quality of the work product exceeds my expectations.

Rate the Company's Response to Potential Problems:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

Not fazed by problems, work toward solutions. No excuses

Signature: [Signature]

Date: 9/4/09

Title: Mgr of Engineering and Planning

(This form may be duplicated to submit information for multiple projects.)

REFERENCE FORM
For Request for Qualifications (RFQ) No. 910

PART A

Respondent's Company Name:
GEOSCIENCE Support Services, Inc.

Contact Name: Dennis Williams

Telephone No.: 909-451-6850

E-mail: dwilliams@geoscience-water.com


Signature

PART B

The above listed firm is responding to a Request for Qualifications for a qualified and experienced Consultant to provide expertise in any of the areas of economics, econometrics/statistical evaluation, resource planning, water resource issues, and resource cost evaluation on an as-needed basis.

You may either (1) complete Part B, or (2) confirm the information provided in Part B by the Respondent is accurate, by signing and returning the completed form to the Respondent.

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Reference Company Information:

Name: Western Municipal Water District

Address: 450 E. Alessandro Blvd., Riverside, CA 92508

Contact Name: Jack Safely

Telephone No.: 951-789-5041

E-mail: jsafely@wmwd.com

Term of Contract: From Feb 2009

To: Present

Monetary Amount of Contract \$ 244,185

Total fees received (or projected) from services provided: \$ 244,185

Description of Services Provided:

Chino Creek Well Field – Implementation of Chino Desalter Project – Preparation of Plans and Technical Specifications for 2 Production Wells, 2 Monitoring Wells/ Provide bidding support and construction inspection, and using existing model conduct runs to confirm well siting and estimate of ground water quality with time.

Rate Overall Performance:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

Rate Responsiveness to Requirements, Submission of Reports:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

Rate Company Personnel, Subconsultants, Quality and Accuracy of Work:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

Rate the Company's Response to Potential Problems:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

Signature: _____

Date: _____

Title: _____

(This form may be duplicated to submit information for multiple projects.)

Exhibit 2

REFERENCE FORM
For Request for Qualifications (RFQ) No. 910

PART A

Respondent's Company Name:
GEOSCIENCE Support Services, Inc.

Contact Name: Dennis Williams

Telephone No.: 909-451-6650

E-mail: dwilliams@geoscience-water.com

Signature 

PART B

The above listed firm is responding to a Request for Qualifications for a qualified and experienced Consultant to provide expertise in any of the areas of economics, econometrics/statistical evaluation, resource planning, water resource issues, and resource cost evaluation on an as-needed basis.

You may either (1) complete Part B, or (2) confirm the information provided in Part B by the Respondent is accurate, by signing and returning the completed form to the Respondent.

THIS COMPLETED FORM MUST BE RETURNED TO THE RESPONDENT FOR THEIR INCLUSION INTO THEIR REQUEST FOR QUALIFICATIONS SUBMITTAL. REFERENCE FORMS SENT DIRECTLY TO METROPOLITAN WILL NOT BE CONSIDERED, RETURNED, OR FORWARDED TO THE RESPONDENT.

Reference Company Information:

Name: Rancho California Water District

Address: 42135 Winchester Road, Temecula, CA 92589-9017

Contact Name: Mr. Craig Elitharp

Telephone No.: 951-296-6955

E-mail: elitharp@c@ranchowater.com

Term of Contract: From: Nov 2007

To: Present

Monetary Amount of Contract \$ 300,807

Total fees received (or projected) from services provided; \$ 300,807

RFQ No. 910

The Metropolitan Water District
of Southern California

Exhibit 2

Description of Services Provided:

Co-operative Water Resource Management Agreement – Preparation of Ground Water Model, and Participation in Model workshops.

Rate Overall Performance:

Exceptional Above Standard Acceptable Needed Improvement
Please circle one and make any applicable comments below.

OUTSTANDING OVERALL PROJECT MANAGEMENT AND EXECUTION.

Rate Responsiveness to Requirements, Submission of Reports:

Exceptional Above Standard Acceptable Needed Improvement
Please circle one and make any applicable comments below.

OUTSTANDING, WELL DOCUMENTED AND ORGANIZED REPORTS

Rate Company Personnel, Subconsultants, Quality and Accuracy of Work:

Exceptional Above Standard Acceptable Needed Improvement
Please circle one and make any applicable comments below.

EXCELLENT PROJECT DOCUMENTATION AND USE OF APPROPRIATE SUBCONSULTANTS

Rate the Company's Response to Potential Problems:

Exceptional Above Standard Acceptable Needed Improvement
Please circle one and make any applicable comments below.

PROACTIVE IN HANDLING OFF PROBLEMS, EXCELLENT TRACKING OF IN-SCOPE VS. OUT-OF-SCOPE WORK.

Signature: [Signature]Date: 9/8/09Title: DIRECTOR OF SYSTEMS OPERATIONS

(This form may be duplicated to submit information for multiple projects.)

REFERENCE FORM
For Request for Qualifications (RFQ) No. 910

PART A

Respondent's Company Name:
GEOSCIENCE Support Services, Inc.

Contact Name: Dennis Williams

Telephone No.: 909-451-6650

E-mail: dwilliams@geoscience-water.com


Signature

PART B

The above listed firm is responding to a Request for Qualifications for a qualified and experienced Consultant to provide expertise in any of the areas of economics, econometrics/statistical evaluation, resource planning, water resource issues, and resource cost evaluation on an as-needed basis.

You may either (1) complete Part B, or (2) confirm the information provided in Part B by the Respondent is accurate, by signing and returning the completed form to the Respondent.

THIS COMPLETED FORM MUST BE RETURNED TO THE RESPONDENT FOR THEIR INCLUSION INTO THEIR REQUEST FOR QUALIFICATIONS SUBMITTAL. REFERENCE FORMS SENT DIRECTLY TO METROPOLITAN WILL NOT BE CONSIDERED, RETURNED, OR FORWARDED TO THE RESPONDENT.

Reference Company Information:

Name: Municipal Water District of Orange County

Address: P.O. Box 20895, Fountain Valley, CA 92728

Contact Name: Richard Bell

Telephone No.: 714-593-5003

E-mail: rbell@mwdoc.com

Term of Contract: From: May 5, 2009 To: Present

Monetary Amount of Contract \$ 96,210

Total fees received (or projected) from services provided: \$ 96,210

Description of Services Provided:

Dana Point Ocean Desalination Project – Ground Water Yield and Drawdown Evaluation in the Lower San Juan Basin Preparation Ground Water Model

Rate Overall Performance:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

Quality of technical work is excellent and as well as presentation. Always meets schedule. Outstanding performance.

Rate Responsiveness to Requirements, Submission of Reports:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

Rate Company Personnel, Subconsultants, Quality and Accuracy of Work:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

Always outstanding, highly qualified staff. Work products are of highest quality and accuracy is excellent.

Rate the Company's Response to Potential Problems:

Exceptional Above Standard Acceptable Needed Improvement

Please circle one and make any applicable comments below.

Very easy to work with - very professional and provides excellent advice

Signature: _____

Date: 9-8-09

Title: _____

Principal Engineer ; Project Manager

(This form may be duplicated to submit information for multiple projects.)

Exhibit 2

REFERENCE FORM
For Request for Qualifications (RFQ) No. 910**PART A**Respondent's Company Name:
GEOSCIENCE Support Services, Inc.Contact Name: Dennis WilliamsTelephone No.: 909-451-8850E-mail: dwilliams@geoscience-water.com
Signature**PART B**

The above listed firm is responding to a Request for Qualifications for a qualified and experienced Consultant to provide expertise in any of the areas of economics, econometrics/statistical evaluation, resource planning, water resource issues, and resource cost evaluation on an as-needed basis.

You may either (1) complete Part B, or (2) confirm the information provided in Part B by the Respondent is accurate, by signing and returning the completed form to the Respondent.

THIS COMPLETED FORM MUST BE RETURNED TO THE RESPONDENT FOR THEIR INCLUSION INTO THEIR REQUEST FOR QUALIFICATIONS SUBMITTAL. REFERENCE FORMS SENT DIRECTLY TO METROPOLITAN WILL NOT BE CONSIDERED, RETURNED, OR FORWARDED TO THE RESPONDENT.

Reference Company Information:

Name: San Bernardino Valley Municipal Water DistrictAddress: P.O. Box 5906, San Bernardino, CA 92412Contact Name: Doug HeadrickTelephone No.: 909-387-9226E-mail: douglash@sbvmwd.comTerm of Contract: From: February 2009To: August 2009Monetary Amount of Contract \$ 108,600Total fees received (or projected) from services provided: \$ 108,600

RFQ No. 910

The Metropolitan Water District
of Southern California

Exhibit 2

Description of Services Provided:

Salinity modeling – report of recharge parties to Santa Ana Regional Water Quality Control Board. Collect and compile data, and perform modeling work for management zones. Perform salt balance for management zones and preparation of reports.

Rate Overall Performance:

Exceptional

Above Standard

Acceptable

Needed Improvement

Please circle one and make any applicable comments below.

Rate Responsiveness to Requirements, Submission of Reports:

Exceptional

Above Standard

Acceptable

Needed Improvement

Please circle one and make any applicable comments below.

Rate Company Personnel, Subconsultants, Quality and Accuracy of Work:

Exceptional

Above Standard

Acceptable

Needed Improvement

Please circle one and make any applicable comments below.

Rate the Company's Response to Potential Problems:

Exceptional

Above Standard

Acceptable

Needed Improvement

Please circle one and make any applicable comments below.

Signature: Douglas J. HeadrichDate: 7/4/9Title: Deputy General Manager

(This form may be duplicated to submit information for multiple projects.)

SECTION 7

Conflicts of Interest

SECTION 7 – CONFLICTS OF INTEREST

GEOSCIENCE has provided services to the Beaumont-Cherry Valley Water District from 2000 to 2010. Our services included the geohydrologic investigation for design and construction of the award winning Beaumont-Cherry Valley Recharge Facility. In association with this project, GEOSCIENCE has designed and provided field inspection services during the construction of production wells for the District, as well as providing quarterly monitoring services and reporting.

Since 1990, GEOSCIENCE has provided periodic geohydrologic services to the City of Banning. Most recently, GEOSCIENCE prepared the City of Banning 2010 Urban Water Management Plan and the 2011 Update to the Safe Yield Determination for the Banning, Banning Bench, Banning Canyon, and Cabazon Storage Units. In addition, on behalf of the City of Banning, GEOSCIENCE has participated in discussions and reviews pertaining to the Maximum Benefits Program for the Beaumont Basin Management Zone (BMZ). GEOSCIENCE currently remains available as the geohydrologic consultant to the City of Banning.

Recently (2012), GEOSCIENCE prepared a design for South Mesa Water Company's Well No. 17. However, this is the only work completed by GEOSCIENCE for the South Mesa Water Company.

As consultant to the Beaumont Basin Watermaster, GEOSCIENCE understands that our role is to place the long-term health of the Beaumont Basin as the utmost priority when providing geohydrologic opinions or recommendations for management of the ground water basin, including the long-term projected use of recycled water as a source for ground water replenishment. We believe that this approach is in the best interest of all member agencies and is in the best interest of the constituents that the member agencies represent, in enforcing the provisions of the adjudication.

SECTION 8

Key Personnel & Project Team

SECTION 8 - KEY PERSONNEL AND PROJECT TEAM

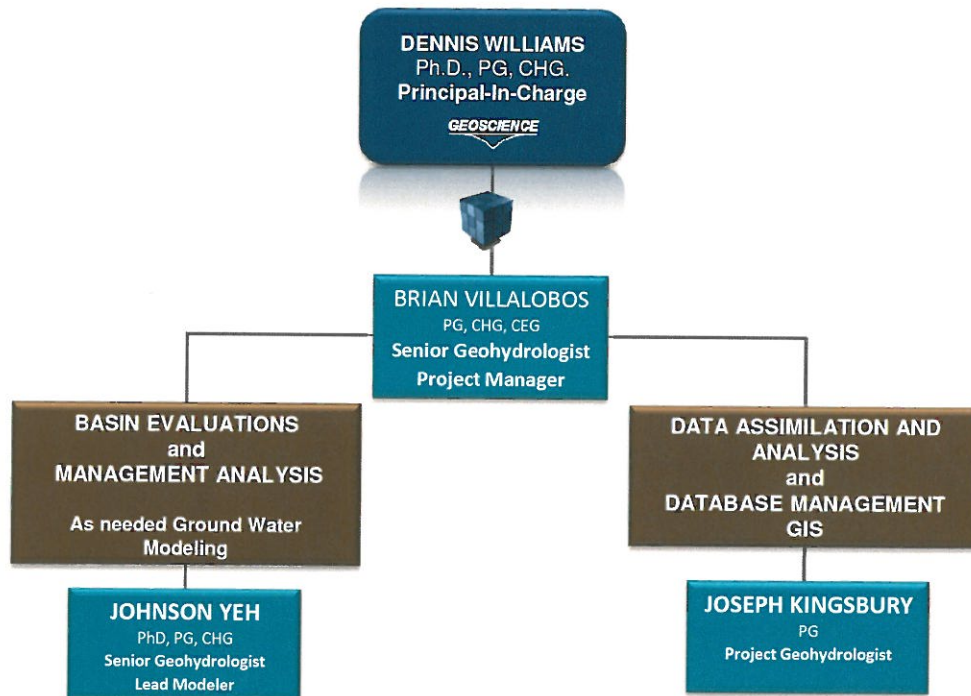
A highly qualified and enthusiastic team, experienced with the technical, administrative, and financial requirements that are essential to providing optimum ground water basin management has been assembled for this Project. Our team consists of several key personnel that are properly qualified licensed geologists and geohydrologists that are experienced in the field of water resources.

Dr. Dennis Williams will serve as overall Principal-In-Charge for this Project. Mr. Brian Villalobos will be assigned the role of Project Manager. He will be closely assisted by Dr. Johnson Yeh whose expertise is in the field of ground water modeling. Mr. Joseph Kingsbury will provide the day-to-day client contact and technical assistance, will oversee provide all aspects of database management and data analysis using our in-house GIS system. The following table outlines a brief description of the personnel assigned to the work which is followed by their resumes and the Project Team organization chart.

| Name/Company | Title/Project Responsibilities | Years of Experience | Registration/Education | Area of Expertise |
|--|--|---------------------|--|--|
| Dennis E. Williams, Ph.D., PG, CHG GEOSCIENCE | Principal-In-Charge | 35 | 1970, Geologist, CA # 461 1995, Hydrogeologist, CA #139 Ph.D., 1968, Hydrology, New Mexico Institute of Mining & Technology M.S., 1965, Ground Water Hydrology, New Mexico Institute of Mining & Technology B.S. 1963, Geology, University of Redlands | Ground Water Hydrology Production Wells Basin Characterization Artificial Recharge Water Resources Management Ground Water Modeling |
| Brian A. Villalobos, PG, EG, CHG GEOSCIENCE | Senior Geohydrologist Project Manager | 21 | 1986, Geologist, CA #4153 1986, Engineering Geologist, CA #1298 2003, Hydrogeologist, CA #794 B.S. 1980, Geology California State University, Los Angeles | Ground Water Hydrology Water Resources Management/Planning Environmental Hydrogeology Engineering Geology |

| Name/Company | Title/Project Responsibilities | Years of Experience | Registration/Education | Area of Expertise |
|--|---|---------------------|--|--|
| Johnson Yeh, Ph.D., PG, CHG GEOSCIENCE | Senior Geohydrologist Lead Modeler | 22 | 1995, Geologist, CA #6317 1996, Hydrogeologist, CA #422 B.S. 1981, Geology. National Taiwan University M.S. 1984, Geology. National Taiwan University Ph.D. 1991. Sedimentology with Emphasis in Statistical Analysis. University of Southern California | Ground Water Modeling Water Resources Management/Planning Basin Characterization |
| Joseph D. Kingsbury, PG | Project Geohydrologist Daily Involvement with Project | 12 | 2009, California Professional Geologist #8680 B.A., 1998, Geology. Ohio State University – Columbus, Ohio | Ground Water Hydrology Watershed Analysis Geographic Information Systems Database Management Ground Water Modeling |

PROJECT TEAM ORGANIZATION CHART



SECTION 9

Resumes

SECTION 9 – RESUMES

Attached are the following resumes:

GEOSCIENCE Support Services Inc.

1. Dennis E. Williams, Ph.D., PG, CHG
2. Brian Villalobos, PG, CHG, CEG
3. Johnson Yeh, Ph.D., PG, CHG
4. Joseph Kingsbury, PG

Dennis E. Williams, Ph.D., PG, CHG

Project Assignment – Principal-In-Charge

Dr. Williams will be the Principal-in-Charge and will have overall responsibility for technical work. Dr. Williams has active daily contact with all staff.

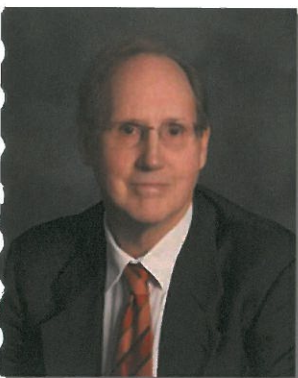
Dennis E. Williams, the founder and president of GEOSCIENCE Support Services has over 35 years of experience in ground water hydrology. Dr. Williams' education includes advanced degrees in ground water hydrology. Dr. Williams is a State of California Professional Geologist and Certified Hydrogeologist and a Certified Ground Water Hydrologist with the American Institute of Hydrology. Dr. Williams has managed ground water basins in Southern California, as well as worldwide, including work for the United Nations. He has developed and utilized management tools such as conjunctive use schemes involving artificial recharge, ground water models, annual water audits, and the establishment of collaborative working groups with member agencies. In conjunction with this ground water management expertise, Dr. Williams is often asked to peer review ground water management programs which include those developed by the USGS and the Metropolitan Water District. Dr. Williams helps manage these programs by understanding ground water level changes, safe yield, ground water movement, and water quality. He has also designed and supervised construction of over 800 deep large-scale municipal and irrigation water supply wells.

Dr. Williams is the author of over 30 publications on ground water and wells and was the principal author of the *Handbook of Ground Water Development* (John Wiley & Sons, 1990); the *Handbook* was awarded Honorable Mention in the Engineering Category of the Fifteenth Annual Awards for Excellence in Professional and Scholarly Publishing by the Association of American Publishers. Dr. Williams was also chief reviewer for the American Society of Civil Engineers (ASCE) *Manual of Water Well Design, Construction, Testing and Maintenance* and primary author for two chapters, *Water Well Construction*, and *Developing and Testing*, and of Appendix *Example of Water Well System Design* (currently in press). Dr. Williams is a contributor for three entries in the Encyclopedia of Water: "Radial Wells", "Well Tests", and "Well Screens" published by John Wiley and Sons. Dr. Williams is a technical consultant to the American Water Works Association (AWWA) Standards Committee for Wells (ANSI/AWWA A100-04).

Dr. Williams is also a professor at the University of Southern California where, for the past 20 years, he has taught graduate level courses in geohydrology and ground water modeling. Dr. Williams has served on many expert and blue ribbon panels as well as performed numerous peer reviews. In addition, Dr. Williams provides expert witness services for a variety of ground water related projects.

A sample list of relevant projects is as follows:

- Ground Water Basin Management for Rancho California Water District
- Ground Water Basin Management for the Raymond Basin Management Board
- Development of Ground Water Management Strategies for San Bernardino Valley Municipal Water District.
- Baseline Geohydrologic Characterization, Ground Water Management Issues and Expert Witness Services for Diamond Valley Lake for Metropolitan Water District of Southern California.



Years of Experience: 35+
Years with GEOSCIENCE: 32

Education:

B.S., Geology. University of Redlands
M.S., Ground Water Hydrology. New Mexico Institute of Mining and Technology
Ph. D., Hydrology. New Mexico Institute of Mining and Technology

Professional Registrations:

California Professional Geologist (No. 461)
Certified California Hydrogeologist (No. 139)
Certified Ground Water Hydrologist (American Institute of Hydrology) (No. 355)

Mr. Bob Tincer, Manager of Engineering & Planning, or Mr. Doug Headrick, General Manager, San Bernardino Valley Municipal Water District, Tel: (909) 387-9215, (909) 387-9226

References: Mr. Craig Elitharp, Director of Systems Operations, Rancho California Water District, Tel: 951-296-6900

Mr. Anthony Zampello, Raymond Basin Management Board, Tel: 626-815-1300

Mr. Richard Bell, Principal Engineer, Municipal Water District of Orange County, Tel: (714) 593-5003

Mr. Cesar Lopez- San Diego County Water Authority, 858-522-6745, Camp Pendleton Desalination Plant

Contact: dwilliams@geoscience-water.com

Level of Commitment: 10% or as Needed



Brian Villalobos, PG, CHG, CEG

Project Assignment – Project Manager

Mr. Villalobos will be assigned the role of Project Manager and will be in close contact with Dr. Williams on project issues.

Mr. Villalobos has 21 years (1978-1989 and 2001 until present) of professional experience in hydrogeology and environmental geology throughout the Southern California region. His specific areas of expertise are in hydrogeologic investigations, environmental hydrogeology, and engineering geology. Mr. Villalobos is the Project Manager for the GEOSCIENCE portion of the City of Riverside Ground water Aquifer Storage and Recovery Project. In addition he has served as project manager for the Raymond Basin Management Board updating the model used for the baseline characterization. He is currently the project manager for the Active Recharge Project on Tributaries of the Santa Ana River being conducted for the SBVMWD. Recently Mr. Villalobos completed an Urban Water Management Plan for the City of Banning.

Relevant Experience:

Upper Santa Clara River Regional Water Management Group – Salt and Nutrient Management Plan, Value of Contract \$ 168,000. Project Manager responsible for preparation of the Salt and Nutrient Management Plan for the Santa Clara River East Subbasin.

Imperial Irrigation District – Feasibility of Groundwater Recharge in the East mesa, Pilot Knob, and Amos Valley Areas of the Imperial Valley, Value of Contract \$68,000. Project Manager for Data review and preparation of conclusions of recharge feasibility based on existing data and recommendations for additional studies at selected potential sites

San Bernardino Valley Municipal Water District – Active Recharge Project from Tributaries of the Santa Ana River. Value of Contract: \$206,000. Project manager responsible for development of a watershed model to estimate potential stormwater capture from 13 tributary creeks to the Santa Ana River.

Geohydrologic Evaluation of the Riverside Aquifer Storage and Recovery Project – Riverside County CA [RBF Consulting and City of Riverside, 2008] – Value of Contract \$75,000. Project Manager. Project included identification of available Santa Ana River surface flows for use in on-channel and off-channel recharge basins and the evaluation of impacts from recharge operations on the ground water surface.

City of Riverside Salinity Study – Riverside County, CA [Carollo Engineers 2010-2011] – Value of Contract, \$53,000. Mitigation alternatives for TDS exceedance at the City of Riverside Regional Wastewater Treatment Plant (WWTP) is required by the RWQCB. As project manager, Mr. Villalobos is responsible for the geohydrologic evaluation portion of the study to determine the trends and sources of high TDS water contributing to the TDS in effluent from the WWTP. The next phase will result in preparation of mitigation alternatives to reduce TDS in effluent.

Years of Experience: 20
Years with GEOSCIENCE: 3

Expertise:
Ground Water Hydrology
Water Resource Management and
Planning
Environmental Hydrogeology
Engineering Geology

Education:
B.S., Geology.
California State University, Los
Angeles. 1980.

Professional Registrations:
California Professional Geologist
(No. 4153)
Engineering Geologist, California
(No. 1298)
Certified California Hydrogeologist,
California, (No. 794)

References:

Mr. Duane Burk, Public Works
Director, City of Banning, Tel: (951)
922-3140

Mr. Wen Huang, Principal Engineer,
San Bernardino Valley Municipal
Water District (909) 387-9223

Mr. Max Rasouli, Water Resources
Manager, City of Riverside, Tel: 951-
782-8720

Contact:
bvillalobos@geoscience-water.com

Level of Commitment: 20% or as
Needed

Johnson C. C. Yeh, Ph.D., PG, CHG

Project Assignment – Ground Water Modeling

Dr. Yeh has been with GEOSCIENCE Support Services, Inc., for more than 22 years during which time he has been involved in project management of ground water modeling efforts, geohydrologic investigations, ground water basin/water quality studies, and artificial recharge projects. Dr. Yeh is currently lead modeler; he is in charge of generation and quality control of technical documents and technical presentations to both clients and regulators, and detailed statistical analysis of various types of data. In addition, he has been the lead modeler on many high profile projects for clients such as the San Juan Basin Technical Advisory Committee, the City of San Juan Capistrano, MWDOC, San Bernardino Valley Municipal Water District, Metropolitan Water District of Southern California, Chino Basin Desalter Authority, Rancho California Water District, West Basin Water District, Raymond Basin Management Board, and the City of Pasadena, among others. He has provided training on the use of models to the USGS and USEPA. As lead modeler for GEOSCIENCE, Dr. Yeh possesses a broad knowledge of GIS tools utilized in support of modeling work and works daily with GIS staff members. Recent relevant projects are as follows:

Basin Management - Ground water Management Program Overview and Integrated Ground water and Streamflow Model of the Murrieta-Temecula Ground water Basin - Rancho California Water District, Rancho California Water District.

Salinity Management - Cooperative Agreement to Protect Water Quality and Encourage The Conjunctive Uses of Imported Water Initial Report of Recharge Parties, Salinity Management - San Bernardino Valley Municipal Water District.

Development of Ground Water Management Strategies for San Bernardino Valley Municipal Water District. Lead Modeler for development of ground water management strategies in the Bunker Hill Basin. Includes development of a 3-dimensional ground water flow and solute transport model. Model is used to assess impacts of potential projects and assist in basin management. 2002 – Ongoing.

Surface and Ground Water Model of the Murrieta-Temecula Ground Water Basin for Rancho California Water District. - Lead modeler for the Integrated Ground Water and Streamflow Model of RCWD. Part of technical panel convened to discuss issues surrounding water and pumping. Panel includes RCWD, USGS, U.S. Marines, Camp Pendleton, Stetson Engineers, Santa Margarita Watermaster, and GEOSCIENCE.

Raymond Basin Ground Water Flow Model for Raymond Basin Management Board. Lead modeler constructing and calibrating a comprehensive ground water flow model for the Raymond Basin. The model was used as a basin management tool to make predictive analyses of potential changes in ground water levels and movement of contaminated ground water under various conjunctive use scenarios. 2003 – Ongoing.



Years of Experience: 20
Years with GEOSCIENCE: 19

Education:
B.S., Geology.
National Taiwan University, 1981
M.S., Geology.
National Taiwan University, 1984
Ph.D., Sedimentology Emphasis in
Statistical Analysis.
University of Southern California,
1991

Professional Registrations:
California Professional Geologist
(No. 6317)
Certified California Hydrogeologist
(No. 422)

Reference: Mr. Wes Danskin,
Research Hydrologist, USGS,
Tel: 916-225-6132

Contact:
jyeh@geoscience-water.com

Level of Commitment: 15% or As
needed

Joseph Kingsbury, PG

Project Assignment – Data Assimilation & Analysis

Mr. Kingsbury has 12 years of diverse experience with ground water, geotechnical, and environmental investigations performed for numerous municipalities, state agencies, and private clients throughout the Southern California region. He provides geologic and hydrogeologic expertise in the fields of ground water hydrology, watershed management, seawater intrusion, water well construction and design, GIS applications, and database development/management. Most current Project Management experience includes the West Basin Barrier Project 5-Year Engineering Analysis, which reported to the RWQCB the extent of movement of recycled water used for the seawater barrier project during the period 2006 through 2010. Mr. Kingsbury has also co-authored Annual West Barrier Annual Ground Water Model update for the previous four years. The primary scope of his responsibilities includes providing support and management for various geohydrologic investigations, including extensive database systems for ground water management. Other current experience includes ground water flow and transport modeling support, quality control of published materials, and the scheduling and supervision of junior staff.

Years of Experience: 12
Years with GEOSCIENCE: 8

Education:
B.A., Geology.
The Ohio State University –
Columbus, Ohio, 1998

Professional Registrations:
California Professional Geologist
(No. 8680)

U.S. Department of Labor Mine
Safety and Health
Administration, Part-46
29 CFR 1910.120, 40-hour
"HAZWOPER"

Contact:
jkingsbury@geoscience-water.com

Level of Commitment: 35%

SECTION 10

Statement of Offer

SECTION 10 – STATEMENT OF OFFER

The cost to complete the scope of work as outlined in the RFP and described in this proposal are provided as required under separate cover submitted with the required 12 copies of this proposal. The scope of work and cost are a firm offer for 12 months following the date of this proposal.



Dennis E. Williams, Ph.D.
President

GEOSCIENCE

April 16, 2012

Beaumont Basin Watermaster
C/O Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Attention: Mr. Eric Fraser, General Manager, Beaumont Cherry Valley Water District

Subject: Costs – Proposal for Professional Services for the Beaumont Basin Watermaster

Dear Eric:

GEOSCIENCE Support Services, Inc. is pleased to provide you with the attached schedule of fees and cost for Professional Services for the Beaumont Basin Watermaster in accordance with the attached proposal (under separate cover). The costs provided herein represent a Not-To-Exceed (NTE) fee and will apply for the 12 month period after the date of this proposal. Our estimate of time to complete each task and hourly costs for professional staff are shown on the attached table. Our NTE fee for completing Tasks 1 through 6: \$ 85,155.

If you have any questions or require any further information regarding these costs, please do not hesitate to call me at your convenience.

Sincerely,



Dennis E. Williams, Ph.D.
President

Cost Estimate for Providing Professional Services for the Beaumont Basin Watermaster

| Task Description | GEOSCIENCE Hours and Cost | | | | | | | Total Cost |
|---|--|-----------------------|------------------------|----------------------|-----------------------|--------------|----|------------|
| | Principal Hydrologist | Senior Geohydrologist | Project Geohydrologist | Staff Geohydrologist | Technical Illustrator | Hourly Rate: | | |
| | \$280 | \$180 | \$155 | \$105 | \$100 | | | |
| 1.0 DATA COLLECTION | | | | | | | | |
| 1.1 Kick-Off Meeting | 6 | 6 | 2 | 1 | | | \$ | 3,175 |
| 1.2 Data Collection and Compilation | | 2 | 12 | 40 | | | \$ | 6,420 |
| 1.3 Update and Maintenance of Computer Database | | 8 | 12 | 32 | | | \$ | 6,660 |
| 1.4 Deliverables | 1 | | 4 | 12 | | | \$ | 2,160 |
| <i>Subtotal</i> | 7 | 16 | 30 | 85 | 0 | | \$ | 18,415 |
| 2.0 BEAUMONT BASIN WATERMASTER ANNUAL REPORT | | | | | | | | |
| 2.1 Preparation of Annual Report (CY 2011) | 4 | 12 | 24 | 60 | 24 | | \$ | 15,700 |
| 2.2 Deliverables (25 Hardcopies of Draft Report and 25 Hardcopies of Final Report) | | | 20 | 24 | | | \$ | 5,620 |
| <i>Subtotal</i> | 4 | 12 | 44 | 84 | 24 | | \$ | 21,320 |
| 3.0 PRELIMINARY OPERATING SAFE YIELD | | | | | | | | |
| 3.1 Preparation of Annual Determination of Operating Safe Yield Technical Memorandum (CY 2011) | 4 | 6 | 24 | 40 | 4 | | \$ | 10,520 |
| 3.2 Deliverables | | | 12 | | | | \$ | 1,860 |
| <i>Subtotal</i> | 4 | 6 | 36 | 40 | 4 | | \$ | 12,380 |
| 4.0 WATERMASTER RULES AND REGULATIONS | | | | | | | | |
| 4.1 Review of Rules and Regulations | 4 | 8 | 2 | | | | \$ | 2,870 |
| 4.2 Deliverables | | 2 | | 6 | 2 | | \$ | 1,190 |
| <i>Subtotal</i> | 4 | 10 | 2 | 6 | 2 | | \$ | 4,060 |
| 5.0 ASSESSMENT OF BEAUMONT BASIN CONDITION | | | | | | | | |
| 5.1 Preparation of Basin Condition Technical Memorandum | 4 | 8 | 24 | 40 | | | \$ | 10,480 |
| 5.2 Deliverables | | 2 | 4 | 16 | | | \$ | 2,660 |
| <i>Subtotal</i> | 4 | 10 | 28 | 56 | 0 | | \$ | 13,140 |
| 6.0 WATERMASTER MEETINGS | | | | | | | | |
| 6.1 Preparation of Meeting Packet Materials and Meeting Attendance | 24 | | 36 | | | | \$ | 12,300 |
| 6.2 Deliverables | | | 4 | 24 | 4 | | \$ | 3,540 |
| <i>Subtotal</i> | 24 | 0 | 40 | 24 | 4 | | \$ | 15,840 |
| 7.0 MISCELLANEOUS SPECIAL PROJECTS | | | | | | | | |
| 7.1 Provide Technical/Administrative Services and Attendance at Outside Meetings for Special Projects | To Be Determined on a Project to Project Basis | | | | | | | |
| 7.2 Deliverables | | | | | | | | |
| <i>Subtotal</i> | | | | | | | | |
| TOTAL HOURS AND COST: | 47 | 54 | 180 | 295 | 34 | | \$ | 85,155 |

GEOSCIENCE Support Services, Inc.

FEE SCHEDULE - Beaumont Basin Watermaster

Schedule of Hourly Rates

| Professional Services | Hourly Rates (\$US) |
|--|-----------------------------|
| Principal Hydrologist | \$280 |
| Principal Hydrologist | |
| Depositions and Court Testimony | \$500 |
| Senior Geohydrologist | \$180 |
| Project Geohydrologist | \$155 |
| Senior Staff Geohydrologist | \$125 |
| Staff Geohydrologist | \$105 |
| Graphics and GIS Illustrator | \$100 |
| Clerical | \$85 |
| Reimbursable Expenses | |
| Reimbursable Project Expenses | Cost + 5% |
| (Telephone, Outside Reproduction, Presentation Supplies, Postage, etc.) | |
| Computer Services | Project Dependent |
| Internal Photocopying- B&W | \$0.10/page |
| Internal Photocopying - Color | \$0.70/page |
| E-Size Color Plates | \$50/Plate |
| Subconsultant Services | Cost + 10% |
| Automobile Transportation | Current IRS Allowable Rates |
| Commercial Travel/Subsistence | Cost + 3% |
| Per Diem at Drilling Site | \$135/day |

Note: Fees valid for April 16, 2012 – April 16, 2013 for Scope of Work Described in “Proposal for Professional Service for the Beaumont Basin Watermaster,” date April 16, 2012 and for Task 7.0 proposed tasks issued by Watermaster. All fees subject to change after the initial 12-month period.

Proposal for Professional Engineering Services

Hazen and Sawyer, P.C.



Yucaipa Valley Water District

Proposal for

Professional Services for the Beaumont Basin Watermaster

April 16, 2012
at 4:00 PM

April 16, 2012

Mr. Eric Fraser
General Manager
BEAUMONT BASIN WATERMASTER
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

Proposal to Provide Professional Services
for the Beaumont Basin Watermaster

Dear Mr. Fraser:

Hazen and Sawyer is pleased to offer its most accomplished engineers, hydrologists and scientists to assist the Beaumont Basin Watermaster. We believe that protecting and improving the water quality and yield of the Beaumont Groundwater Basin can ensure the water resources for generations to come. The attached proposal explains our approach to all seven tasks described in the Request for Proposals. The highlights of the proposal include:

- A team which has been providing similar annual reporting, operating safe yield calculations, review of rules and activities, and basin condition assessment that the Beaumont Watermaster is requesting
- Committed leaders aggressively maximizing the water quality, storage and production of your existing facilities
- Review of the monitoring well system to provide adequate data to manage the basin's recharge and production operations
- Operating Safe Yield calculation that recognizes recharge fluctuations
- Policies and Practices aligned with Rules and Regulations for ensuring reliability and water supply benefits

Hazen and Sawyer has no conflicts of interest that would keep us from providing the Beaumont Basin Watermaster with every engineering and technical service needed. We have reviewed the Judgment and the parties named therein, and do not have any direct or indirect business relationships with the five Committee member agencies, nor other parties in the Judgment.

We have reviewed and acknowledge the terms and conditions in the Request for Proposals. This proposal is a firm offer for 90 days. We hope to discuss our proposal with you and the Watermaster Committee in the coming days. Please contact me with questions at 213-505-6723 or lgrijalva@hazenandsawyer.com at any time.

Respectfully submitted,

HAZEN AND SAWYER, P.C.



Lynn Grijalva, P.E.
Vice President and Project Manager

Enclosure

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Resumes

Detailed Descriptions of Similar Projects

Statement of Qualifications

1.0 Introduction to Hazen and Sawyer

1.1 About the Firm

Hazen and Sawyer is a nationally and internationally recognized environmental engineering consulting firm, specializing in the engineering and management of long-lasting water resources, water reclamation and potable water supply systems for public utilities.

Since its founding over half a century ago, the firm has completed thousands of major assignments in the United States and abroad for government agencies, utilities, and industrial organizations. These range in scope from water resource master planning for small communities to water quality assessments and resource economic studies to vast engineering undertakings that include preliminary studies, final design, and construction management of multi-billion dollar water and wastewater projects for large urban centers.

History of the Firm

The firm's roots go back over 100 years to the accomplishments of Allen Hazen, one of the pioneers of modern water supply engineering and co-developer of the Hazen-Williams formula for fluid flow in pipes in 1903. Hazen and Sawyer was established by Hazen's son Richard and Alfred W. Sawyer in 1951 and is owned entirely by its employees.

Years in Business

Hazen and Sawyer was established in 1951 as a Partnership in the State of New York. In 1977, the firm was incorporated as a Professional Corporation in the State of New York. The firm has provided engineering services in the water resources field for the last 60 years in the United States and abroad. Our staff of over 750 engineers, scientists and other water professionals continues to grow.

Known for superior technical work, Hazen and Sawyer is ranked the #1 firm in the nation for whom water/wastewater is 100% of their business according to Engineering News Record for 2011.

Areas of Service

After establishing the Northeast practice which centered around surface water storage, transport and treatment for potable water supply, Hazen and Sawyer expanded to Florida and the Southeast. There, the work revolved around groundwater withdrawals and recharge, water recycling, storm-water capture and saltwater barriers. Our engineering practice in the Midwestern United States specializes in managing 100-year old infrastructure and the Mid-Atlantic offices design more nitrogen reduction facilities than any other engineering firm. In 2012, Hazen and Sawyer opened it's Los Angeles office to bring these services together to serve water districts by maximizing their integrated water resources of local groundwater, recycled water, imports and rainwater. *Since the firm's founding, Hazen and Sawyer's business practice has focused exclusively on water and wastewater engineering.* We have helped our clients adapt to changing times with reliable water supplies, energy neutrality, economical operations, high water quality, and regulatory compliance.

Honors and Achievements

Hazen and Sawyer, in concert with our clients, have received numerous awards for its projects from publications and professional societies. The firm is committed to maintaining its position at the forefront in advancing water, wastewater, and reclaimed water technologies. For instance, in the field of water treatment, Hazen and Sawyer is the nation's leading expert in dissolved air flotation and recently designed the world's largest UV

disinfection facility for drinking water. In the field of wastewater treatment, the firm maintains the industry's top expertise in process modeling and optimization, BNR/ENR retrofits, clarifier modeling and optimization, disinfection, solids handling process analysis and optimization, and dual membrane treatment. Several recent awards include the following:

- David W. York Water Reuse Award: 2011 Reuse System of the Year for The Loxahatchee River District recognizing outstanding water reuse projects in Florida.



The David York award presented to the Governing Board, recognizing the importance of water recycling efforts to meet present and future demands

- WaterReuse Foundation: 2009 WaterReuse Award of Merit for the Collier County South Regional Desalination Plant Expansion and Wellfield Expansion



The South Central Regional Wastewater Treatment Facility earned the Excellence Award for Type I facilities in the Southeast District, accepted by Dennis Coates, Director of SCRWT&DB, and John Koroshec, Hazen and Sawyer Project Manager (right).

- Construction Management Association of America: 2009 CMAA Project Achievement Award Honorable Mention for the Miami Beach Right-of-Way Infrastructure Improve-

ment Program in the category of Program Management/Program Phase, Infrastructure

- American Public Works Association, South Florida Branch: "2008 Project of the Year" for the City of Hallandale Beach Membrane Softening Facility

1.2 Research and Innovation

As worldwide populations continue to rise and clean water sources become more stressed from both increased freshwater withdrawals and treated wastewater discharges, providers find themselves faced with limited sources of high-quality water to meet the myriad needs of society.

Whether it's facing the growing challenge of endocrine disrupting compounds and pharmaceuticals/personal care products in our water supply, designing and evaluating new technology trains to ensure the safety of reclaimed water, making the most efficient use of membranes, or assessing and managing the risks of climate change and extreme weather events, Hazen and Sawyer's leading experts are working with top research foundations and some of the world's largest utilities to find the most effective and efficient solutions.



1.3 References

Assessment of Hazen and Sawyer's specific experience can also include a review of references relative to our performance on similar projects. Several references are listed below and we encourage the reviewer to contact each of them. We are proud of our history of meeting the goals and objectives of our clients.

Victor Valley Wastewater Reclamation Authority

Mr. Logan Olds, General Manager
15776 Main Street, Suite 3
Hesperia CA 92345
Tel.: (760) 948-9849 x110

Broward County Water and Wastewater Services

Alan W. Garcia, P.E., Director
2555 West Copans Road

Pompano Beach, Florida 33069

Tel.: (954) 831-0705

Tampa Bay Water

Mr. Dave Bracciano

Demand Management Coordinator

2575 Enterprise Road

Clearwater, Florida 33763-1102

Tel.: (727) 791-2313

Loxahatchee River District

D. Albrey Arrington, Ph.D., Executive Director

2500 Jupiter Park Drive

Jupiter, Florida 33458-8964

Tel.: (561) 747-5700 x107

South Central Regional Wastewater Treatment and Disposal Board

Mr. Dennis Coates, Executive Director

1801 North Congress Avenue

Delray Beach, Florida 33445

Tel.: (561) 272-7061

City of Plantation

Hank Breitenkam, Director of Utilities

400 Northwest 73 Avenue

Plantation, Florida 33317

Tel.: (954) 797-2285

2.0 Key Staff

2.1 Organizational Chart

Our team members presented in the Organization Chart (Figure 1) are experienced, highly competent and capable of accomplishing any assignment arising out of this contract in a cost-effective and technically proficient manner.

2.2 Roles and Responsibilities

A brief summary of the qualifications of our proposed key staff members follows.



Lynn Grijalva, P.E.

Project Manager

Our Project Manager, Lynn Grijalva, P.E., Los Angeles

office manager, has deep roots in the State of California. She will work closely with the Beaumont Basin Watermaster Board to maintain accurate timely records and reports while also making progress

with their greatest long term priorities. She will be responsible for directing the efforts of both our local personnel and technical support staff in undertaking each assignment awarded under this contract. A Vice President at Hazen and Sawyer, Ms. Grijalva has extensive experience managing complex, multi-disciplined teams on similar types

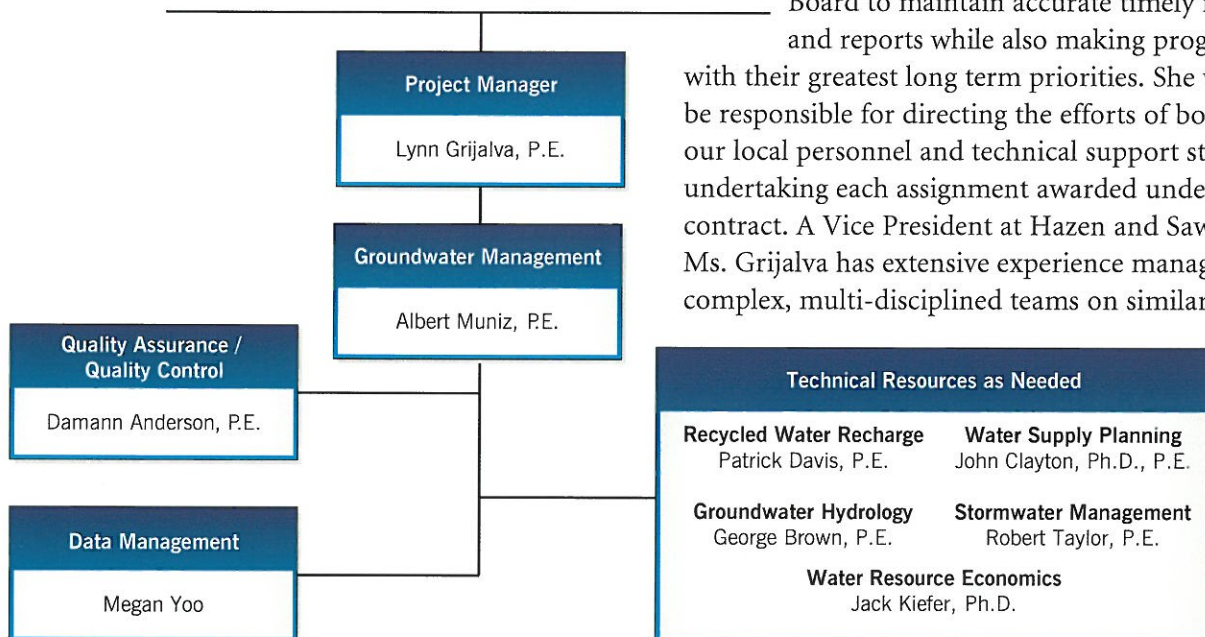


Figure 1: Organizational Chart

of contracts throughout her 32-year career. She worked for two years as a water quality manager for the Clean Water Coalition Authority in Las Vegas, and was a national officer for the Water Environment Federation. She has helped several desert and foothill communities increase their groundwater recharge, adapt to drought and environmental pressures and maintain high water quality.



Albert Muniz, P.E.
Groundwater Management

Albert Muniz, P.E., will serve as the groundwater manager for this project.

Mr. Muniz has pioneered several investigations related to groundwater monitoring systems and water use consumption. He has designed monitoring networks for several large utilities that are used to monitor water quality and water levels in environmentally sensitive areas. Use of these monitoring networks have been key to the continued sustainable use of resources threatened by saltwater intrusion and other contaminants. In all cases, utilities have been able to establish and maintain safe yields at levels required to comply with local water authorities and permit conditions. Mr. Muniz has also been involved in a variety of other water resource projects including the design, construction and permitting of numerous injection well systems. Mr. Muniz is a civil engineer with over thirty years of experience, has an outstanding track record in management of multi-discipline projects related to water and wastewater. Mr. Muniz is a Vice President for Hazen and Sawyer and the Southeast Region Director for Water Resources. Mr. Muniz has extensive experience in the permitting, design and construction of injection well systems having worked on 25 systems. Sixteen of the injection well systems have been municipal designed wells. He has also authored numerous publications related to injection well systems. His experience includes water supply, effluent disposal and deep well injection programs, aquifer storage and recovery (ASR), wellfield design and evaluation, saltwater intrusion analysis, permitting and regulatory development.



Damann L. Anderson, P.E.
Quality Assurance/Quality Control

Mr. Anderson will act as Quality Assurance/Quality Control. He will assure

that all the necessary resources of our firm are made available to the Project Manager to meet the needs and objectives of the Beaumont Basin Watermaster. Mr. Anderson is a principal of Hazen and Sawyer and remains an active engineer working on client projects. His responsibilities as a consultant on engineering and environmental projects include all aspects, from conception and planning to analyses and presentations. His additional responsibilities include overall project administration, budgeting, and billing.



Patrick A. Davis, P.E.
Recycled Water Recharge

Patrick Davis, P.E., is Vice President of Hazen and Sawyer and will advise on the opportunities and operational details of using recycled water for groundwater recharge. Pat has over 30 years of management experience for a variety of infrastructure programs and projects. Mr. Davis has earned a reputation as an expert on wastewater effluent management issues, notably those related to reuse (filtration/high level disinfection), toxicity and Class I injection well disposal. Mr. Davis is one of the most recognized leaders in the management of concentrate and effluent in South Florida and on water quality issues related surface water discharge. He has served as a spokesperson for utilities during recent discussions related to concentrate and effluent disposal. Mr. Davis has served as the project director on over \$300 million of public works construction and has been involved in an engineering capacity on over \$800 million of constructed local works projects.



John M. Clayton, Ph.D., P.E.
Water Supply Planning

John Clayton, Ph.D., P.E., will assist with quantifying the mix of available water supplies in the Beaumont Basin. He is an environmental engineer with expertise in modeling and forecasting of water demand and supply (including probabilistic and mechanistic methods), supply reliability analysis, statistical hydrology, and optimization and numerical methods in systems and operational modeling.



George A. Brown, Jr., P.E.
Groundwater Hydrology

George A. Brown, P.E. will assist with analyzing well operations, metering, pumping and monitoring systems. He has managed and/or participated in numerous reclaimed water, water supply, water treatment, pipeline, pumping station and storage tank projects from conceptual planning, detailed design, permitting through construction and startup. Recently Mr. Brown was a field observer during the installation of two deep well injection wells used for disposal of treated effluent disposal at the North Broward Regional WWTP. Each well has a 24-inch diameter inner casing which extends about 3,200 feet to a receiving aquifer known as the Boulder Zone.



Robert B. Taylor, Jr., P.E.
Stormwater Management

Robert B. Taylor's experience includes managing/directing various water resource projects aimed at stormwater recharge, water reclamation, and aquifer recharge. Thus efforts have included elements of planning, design, permitting, construction and operations. Notable projects include: the Town of Jupiter Recharge System, which diverts and impounds surface waters (otherwise lost to tide) for surficial aquifer recharge; Town of Jupiter/Loxahatchee River District Nanofiltration concentrate/reclaimed water blending project, which allows beneficial reuse of WTP concentrate (otherwise lost to deep injection well disposal); and the City of Sunrise Southwest WWTP Upgrade and Percolation Pond Rehabilitation (increasing potential recharge by up to 100%).



Jack C. Kiefer, Ph.D.
Water Resource Economics

Jack Kiefer, Ph.D., Senior Associate and Economist, can assist with future demand forecasting, considering the factors of drought, imported water shortages, agricultural economies and water use efficiency. Dr. Kiefer specializing in multiple consulting areas of water resource economics and planning, econometrics, and integrated water demand and supply planning and management. He is also an expert in conducting empirical evaluations of demand management programs. He has led water conservation studies for San Diego County Water

Authority and other large utilities in the Southwest and has served as principal investigator on two studies for the American Water Works Association Research Foundation (AWWARF), where he led statistical evaluations of end uses of water in municipal and industrial sectors.



Megan S. Yoo
Data Management

Megan S. Yoo will collect and compile the data from all agencies, assembling it into reports, tables and graphics. She will work with the Watermaster to prepare agenda items, website postings and materials. Ms. Yoo is an intuitive innovator who delivers successful projects with sound technical information within an aesthetically pleasing presentation. Her engineering background provides the ability to strategically integrate key technical concepts into a clear, well-defined message. She is a dedicated member of water/wastewater related professional associations since 2004 and has done extensive work with Microsoft Office Applications, Adobe Acrobat Professional and Microsoft Project.

3.0 Scope of Services

3.1 Project Understanding

The Beaumont Basin Watermaster ("Watermaster") is charged with adjudicating water rights within the Beaumont Groundwater Basin. A Stipulated Agreement, known as the Judgment, provides the Watermaster with the authority and responsibility to administer the adjudicated water rights within the Beaumont Groundwater Basin. An important component of the Watermaster's mission is to perform tasks that are required for compliance with the adopted rules and regulations, including preparation of annual reports.

Preparation of annual reports is critical as they contain key information needed to assess the condition of the Beaumont Groundwater Basin and provide a tool by which the Board can manage the resource. Elements to be contained within the annual report include:

- A description of the Watermaster's operations and activities during the reporting period

- A summary of the financial assessments and expenditures during the reporting period
- An overview of the water resource conditions of the Beaumont Basin including an update on the status of monitoring, storage, and water quality

It is our understanding, that the Watermaster seeks the services of a consultant to provide administrative and engineering related services to assist in the requirements set forth in the Judgment. Hazen and Sawyer understands that the Watermaster's objectives include:

- Capitalizing on opportunities to store surplus water
- Establishing a mechanism to account for and share new and surplus water
- Managing the basin to pump the best overall quality water, minimize losses, and maximize the stored water recovery

Hazen and Sawyer is a national environmental engineering firm with specific experience and expertise in the specific areas needed to assist the Watermaster with this challenging project. We believe that we have the uniquely qualified staff and firm experience to assist the Watermaster with an unbiased and fresh perspective.

3.2 Approach to Performing the Work

Understanding the responsibility of the Watermaster in protecting the resources of the Beaumont Water Basin is essential. The plan must have a vision and be successful to ensure the beneficial use of resources for generations. Hazen and Sawyer believes that protecting and improving the water quality and yield of the Beaumont Groundwater Basin is critical to the long-term viability of the region.

The first step in management of a resource is review of the existing monitoring network. The monitoring network should be designed to provide accurate data for professionals and managers to use in assessing conditions. If necessary, the network design should be revisited and enhanced to meet

the needs of current conditions. In any case, the existing monitoring network and operation should be revisited on an annual basis to ensure that short-term and long-term goals are being met. In addition, the plan should be a living document, updated based on historical records and future needs. Both quality and quantity should be considered and evaluated on a continuous basis and reported quarterly and annually. The annual report should include provisions for any improvements required to secure the resource along with justification and a business plan for implementation. Financial planning should be provided to the independent auditor to allow sufficient time for funding of needed projects.

The request for proposal outlined specific tasks needed by the Watermaster to maintain compliance with State mandates. Seven individual tasks were listed in the request for proposals. The following discussion provides Hazen and Sawyer's approach, methodology, and specific activities that will be performed to address the specific issues and work items identified.

Task 1 – Data Collection. Collecting the correct data is essential to establish a factual representation of environmental conditions. We have found on numerous occasions (relative to other projects), the monitoring networks have been incomplete, inaccurate, and/or simply designed to collect data that were not useful to address the goals of the water provider. Several saltwater intrusion projects in coastal regions are good examples of projects that were managing withdrawals based on data that were not factual. For example, in one coastal community, a groundwater model was developed and used to allocate withdrawals with the intent of preventing saltwater intrusion. Unfortunately, the grid size used for the model was at too large a scale to accurately predict groundwater levels and water quality, causing a utility to reduce withdrawals and develop more expensive water supplies. Hazen and Sawyer was able to carefully evaluate the situation and design a plan to allow collection of site specific information that included water levels, water quality and withdrawal rates. A report was prepared and submitted to the water management district and negotiations were held to demonstrate that a more accurate assessment proved that additional withdrawals were possible without adverse impacts.

These results saved the utility millions of dollars, as development of more expensive water supplies and treatment facilities were avoided.

Information identified in the current data collection task appears to be a suitable starting point. We would also recommend development of a 10-year running average on data collected to identify possible trends. We would also seek opportunities to expand recharge wherever possible. Water quality is important; therefore any recharge opportunity would need to meet water standards for the intended use. In addition, data should be presented in an easy to interpret and understand format with correlation to historical trends. For example, water levels tend to fluctuate on a monthly basis. Hence, both annual and monthly trends should be reviewed. This would also facilitate the Watermaster's review and interpretation of data. The overall assessment should consider historical trends which can be seen by review of annual averages. More important however, are the trends that may occur on a monthly basis as these types of trends should be used in allocation of withdrawals during the year. Another area where this approach could be of value is in assessment of recharge opportunities. More on this issue is included in the discussion under Task 3.

Task 2 – Preparation of Annual Report. There are many elements contained in the annual report ranging from water levels to water transfers to basin conditions. Each of the items included in the annual report are important and related to the overall status of the Basin. Hazen and Sawyer's approach to development of reports is to develop a detailed table of contents that addresses all the requirements of the Judgement. The detailed table of contents should be reviewed by the Watermaster for acceptance, and if required, modified to address any current or pending conditions that may be identified. In addition, each item included in the report should follow a format that includes a summary, conclusions, and recommendations. Again, data with trends are useful and recommended for implementation into the report. This approach will facilitate presentation of the report and provide a clear format that is easily understood.

Reports are typically prepared and submitted in draft format for review by the client in advance

of formal presentations. Hazen and Sawyer has used a variety of approaches to convey information to clients including a presentation of documents at the point of delivery to verbally communicate report contents. This step is then followed by a review meeting within a two week period. During the review meeting, Hazen and Sawyer staff will sit down with the client and discuss the report (including findings) and answer questions. Review meeting minutes are then prepared and submitted prior to finalization of the report as a check to make sure the clients comments have been addressed. Upon confirmation that all issues have been addressed, Hazen and Sawyer will incorporate the comments from the client into the report, and a final report is prepared and issued.

Hazen and Sawyer can easily provide copies of the annual report in the various formats identified in the request for proposals.

Task 3 – Annual Determination of Operating Safe Yield. Establishment of a safe and sustainable yield is a difficult task since recharge fluctuates continuously. Hazen and Sawyer is fully aware of the risk facing water managers and believes that a conservative approach with "back up" provisions is essential. This method lets others know that there are risks involved and that some degree of redundancy is needed to ensure a reliable source.

In the natural water cycle, input must be at least as great as output to maintain status quo. However, due to losses (expected or unexpected) additional recharge or input is highly recommended to maintain water levels for future use. It is believed that the natural safe yield of the Beaumont Basin was estimated to be 8,650 acre-feet/year at the adjudication of the Beaumont Basin. In accordance with Part VI, Paragraph 5(Y) of the Judgment, the safe yield will be re-determined at least every 10 years, and is planned for determination and adoption in 2013. That calculation may be one of the services performed as a miscellaneous engineering project in the next year. The exact methodology and input parameters used to estimate the safe sustainable yield should be initiated and buy-in obtained from all member agencies and other stakeholders. Additional data gathering may be required.

As presently defined, the Operating Safe Yield is the quantity of water that the Watermaster deter-

mines may be pumped from the basin in a fiscal year without adverse impacts and based on historical data and conditions observed. Based on annual production, recharge and change in storage, we will calculate the operating safe yield for FY 2012/13. The data compilation will have been completed in Tasks 1 and 2.

Task 4 – Review of Rules and Regulations. Hazen and Sawyer will review the existing Rules and Regulations to determine whether or not they are reflected in the current policies and practices being administered by the Watermaster. As needed, recommendations will be made to update and revise documents. Hazen and Sawyer will suggest alternatives to change practices or the rules to bring them into better alignment.

An example outcome of a review is implementation of Rule Subsection 3.1 to install meters as the Watermaster deems appropriate, and document standard practices for inspection and testing meters as the Watermaster deems necessary. Any change proposed will note the potential financial impact to the members and their customers, and will note the water supply benefit so that the Watermaster can make decisions based on cost and value. The discussion of deviations, proposed revisions, etc. will be conducted at the time of the bimonthly Board meetings. We will prepare language for the resolutions and Rules Modification, coordinating with the Watermaster's legal counsel, to place on the board agendas and post for public notice.

The anticipated level of effort for a typical review of Rules and Regulations, and processing of a resolution is 12 hours.

Task 5 – Basin Condition Report. The Basin Condition Report at minimum will include a "state of the groundwater basin" report including a status of monitoring, storage and water quality. This is an opportunity to expand on the aspects of the system that can be optimized for greater recharge, storage and production. Hazen and Sawyer will address the compiled water quality data, with focus on constituents of concern in Beaumont Basin.

For water quality, we understand that the members have collected data on total dissolved solids (TDS) and nitrate nitrogen, and have taken actions to improve the quality through recharge and waste-

water reclamation. We will examine continually high nitrate and TDS concentrations, and examine the positive impacts of recharge using State Water Project water and recycled water. Because of our work identifying and treating contaminants of emerging concern, we will bring to the Watermaster's attention any data on constituents that have been identified as present or potentially present. Most of the data for the Condition Report will be compiled during Tasks 1 and 2. We will present data in tables and graphics that are visually simple and allow the reader to see trends and hot spots. At this juncture we don't anticipate building a groundwater model.

In anticipation of climate change impacts, the basin condition report will introduce discussion of the risks of reduced water imports, prolonged dry periods and more intense rain events. The potential effects on water availability patterns, groundwater quality, well production and use patterns will be introduced for future monitoring. The result will better position the Watermaster to seize opportunities to maximize its water supply and control its costs. Water level reporting is critical and will be tracked on a monthly basis to assess conditions. Warning levels will be developed to alert / warn users of potential risks and to encourage users to curtail usage when such conditions exist.

Several best management practices will be presented in the Basin Condition Report for use by the Watermaster as appropriate. Practices could include stormwater retention/detention in zones with highly porous soils for efficient infiltration as well as injection wells when infiltration basins are not able to move water to the productive groundwater strata. We will investigate innovative recharge methods that have been successfully used in basin management, such as those used in the Central and West Coast Basins in Los Angeles, where a varying rate of replenishment nearly doubles the production of the groundwater on a consistent year to year basis.

Task 6 – Meeting Attendance. Participation in meetings is required to provide technical support on questions that may arise during the course of a meeting. Hazen and Sawyer staff will attend meetings as needed to assist the Watermaster as identified in the scope of work. In addition, Hazen

and Sawyer will prepare materials, as requested by the Watermaster, in support of our efforts to be included in the “package” provided to members. Anticipated meeting dates and topics are shown in Table 1.

Table 1

| Meeting Date | Engineer's Topics |
|------------------|-------------------------------------|
| June 6, 2012 | Draft Annual Report |
| August 1, 2012 | Final Annual Report |
| October 3, 2012 | Resolution for Rules and Regulation |
| December 5, 2012 | Draft Basin Condition Report |
| February, 2013 | Final Basin Condition Report |
| April, 2013 | Draft Annual Report |

Task 7 – Miscellaneous Special Projects. It is noted that the Watermaster does not require a description or approach for this task since the specific effort is not known at this time. For reference purposes, please note that Hazen and Sawyer can provide consultation and technical support on any of the issues that the Watermaster may request in the next four years, including:

- Surface water and groundwater hydrology
- Drinking water contaminant levels and recycled water quality limits
- Water quality analysis and treatment technology
- Groundwater basin management
- Recharge by injection and surface spreading
- Energy and carbon footprint minimization
- Condition assessment, repair and replacements

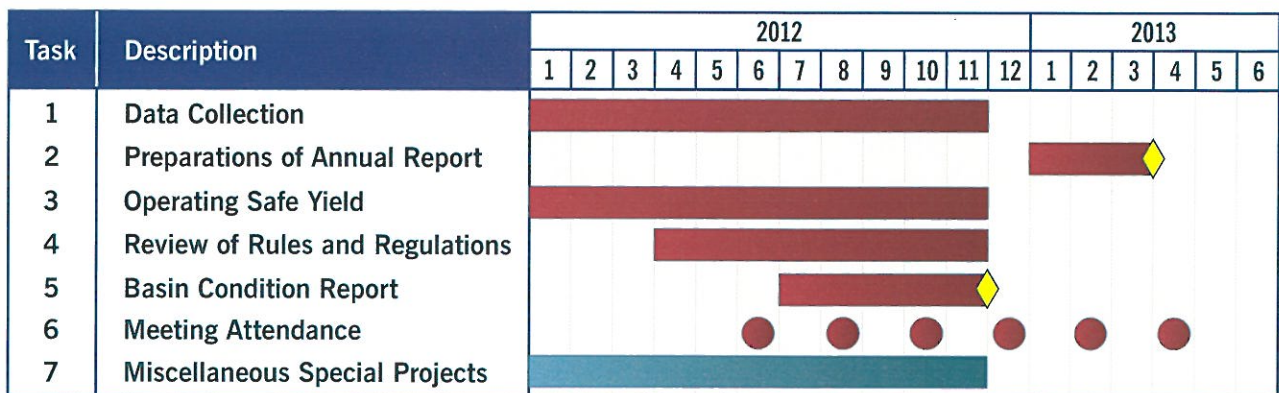
- Climate change adaptation and preparedness
- Stormwater capture, treatment and infiltration

3.3 Project Schedule

Figure 2 shows our proposed project schedule. Throughout the year we will review the monthly data to evaluate the adequacy and reliability of the information to tell the whole condition of the basin and its operation. Calculation of the annual operating safe yield will be based on continuous review of the information throughout the year. We will proactively discuss the stakeholders operations and the basin condition at every bi-monthly Watermaster meeting to support the maximum efficiency under system fluctuations throughout the year.

4.0 Similar Project Experience

Hazen and Sawyer is dedicated to putting our team's experience to work for the Beaumont Basin Watermaster. We are adept at annual reporting of water utilities' production, financial performance and operations. As Beaumont Basin faces future challenges of making its local supply more reliable, we can provide the technical resources for increased recharge of recycled water and surface water. Florida has been similar to California in water recycling, supplying water to fast-growing communities, balancing agriculture and municipal water demands. The most important similarity is in managing its groundwater and surface water together through recharge, storage and recovery systems. Our team studied the Orange County and West Basin groundwater replenishment programs when designing similar recharge programs in South Florida. We have designed and optimized recycled

**Figure 2: Project Schedule**

water treatment using the same processes as Yucaipa and other Southern California districts.

Provided at the end of this proposal are detailed project descriptions which may be similar to the needs of Beaumont Basin. With each project, our

goal is to facilitate our clients' success, further enabling them to provide the highest level of service to their residents. In addition, Table 2 lists the total cost for each of the selected projects.

Table 2

| Client / Project Name | Total Cost |
|---|----------------------------|
| City of Fort Lauderdale / Annual Saltwater Intrusion Groundwater Monitoring Report | \$9,880 |
| City of Naples / ASR Test Well and Water Use Permit Assistance - Phase 1 | \$357,000 |
| Broward County / North Regional Water and Wastewater Annual Report FY 2010 and 2011 | \$30,000 |
| City of Plantation / Water and Wastewater Annual Audits | \$25,000 |
| City of Hollywood / Coastal Salinity Barrier Project | \$42,000 |
| South Central Regional Wastewater Treatment & Disposal Board / Deep Injection Well System | \$32,000 |
| City of Fort Lauderdale / Dixie Wellfield Improvements | \$200,000 (design only) |
| City of Pompano Beach / Saltwater Monitoring Program and Safe Yield Analysis | \$30,000 |
| Tampa Bay Water / Water Supply Planning and Analysis (<i>various projects to date</i>) | \$1,840,082 |
| Town of Jupiter / Surface Water Recharge System Pilot Study | \$20,000– \$40,000/year |



Professional Record

Lynn Grijalva, P.E. is the head of our Los Angeles office. She has led and supported teams of project managers, engineers, and scientists to develop water quality and supply programs that serve public agencies and their stakeholders. Her interests and experience spans water, resources, wastewater, stormwater, groundwater, streams and wetlands.

Engineering Consultant to Water Boards:

Provided consultation, reports, regulatory liaison and series of as-needed projects, including water resource plans, ordinances, operating procedures, annual budgets, capital improvement plans, flow metering, water quality sampling. The boards included Washoe Regional Water Planning Commission, Truckee Meadows Stormwater Committee and Susanville Consolidated Sanitary District. She was also staff to a 4-member joint powers authority in Las Vegas, coordinating Colorado River monitoring with Metropolitan Water District of Southern California, directed modeling, legal services, permitting, briefed Board members and coordinated with member agencies, state and federal agencies on water quality, groundwater, recycled water and return flows.

Water Master experience: When working in the Lake Tahoe area, communicated with the Carson River and Truckee River Federal Water Masters to obtain water surface and flow data, provide diversion data and comply with diversion limits in order to build projects in those river systems. Addressed issues of minimum flows to support downstream water rights and environmental flows.

Recycled Water Infiltration Basins: Conducted geological studies,

planned and designed infiltration basins and galleries for reclaimed water in eleven high desert and foothill communities. In all cases the basins provided long term deep infiltration, included groundwater monitoring, maintained nitrate and chloride levels below regulatory limits. Many basins provided seasonal storage for recycled water distribution systems.

Ms. Grijalva has led diverse teams to develop water quality programs that serve public agencies and their stakeholders.

Stormwater Infiltration Basins:

Conducted hydrologic models and geological investigations to plan and design detention and infiltration basins in locations that recharge the underlying groundwater basins. The four facilities fulfilled their primary purpose of flood control and also provided habitat, water quality improvement and community recreation.

Washoe County Regional Groundwater Recharge Study:

Project manager to analyze the groundwater basins quality, depth, safe yield, storage capacity and well production. Oversaw development a GIS data management system including NOAA precipitation records and USGS hydrogeology to produce interactive mapping that was the basis for future groundwater recharge basins for stormwater, surface waters and reclaimed water.

Tonner Canyon Reservoir, City of Industry, CA: Evaluated potential for integrated uses for seasonal recycled water storage, direct use, groundwater recharge and rainwater storage.

Academic Credentials:

MS, University of Nevada Reno, 1979,
Civil Engineering
BS, University of Nevada Reno, 1978,
Civil Engineering

Professional Engineer - California, Nevada

Employment Record

| | |
|--------------|------------------------|
| 2011–Present | Hazen and Sawyer, P.C. |
| 2009–2011 | HDR |
| 2007–2009 | Clean Water Coalition |
| 1980–2007 | Kennedy/Jenks |

Areas of Expertise

- Wastewater treatment
- Stormwater management
- Streams and wetlands

Facilitated interagency participation between City staff and Sanitation Districts of Los Angeles County to develop in a new reservoir.

Hollywood Forever Cemetery Water Capture and Reuse, Los Angeles, CA:

Project Manager, investigated shallow groundwater and rainwater and developed concepts plan for withdrawing and using the water for irrigation.

Diamond Valley Recycled Water Master Plan, South Tahoe Public Utilities District, Alpine County, CA:

Project Manager and Engineer for master planning and CEQA support for recycled water related facilities: wet meadow wetlands to receive recycled water, oxygenation and flow augmentation to control phosphorus release and algae blooms in Indian Creek Reservoir, stream discharges and recycled water conveyance.

Albert Muniz, P.E.

VICE PRESIDENT



Professional Record

Albert Muniz, P.E., a civil engineer with over 30 years of experience in Florida, has an outstanding track record in management of multi-discipline projects related to water resources. His experience includes water supply, effluent disposal and deep well injection programs, aquifer storage and recovery (ASR), well-field design and evaluation, saltwater intrusion analysis, permitting, and regulatory development. Mr. Muniz is a Vice President for Hazen and Sawyer and the Southeast Region Director for Water Resources. He is recognized as a leader in his field and served as a technical member on the Governor's Commission for a Sustainable South Florida and was the Chair of the AWWA Groundwater Committee.

Mr. Muniz has participated in water supply planning in South Florida since 1985. His work includes planning, wellfield development, well-field evaluation, saltwater intrusion analysis, monitoring programs, remediation of contaminated well-fields, permitting, and planning. He has pioneered the first successful Aquifer Storage and Recovery (ASR) systems in south Florida. These efforts included management of the first operational ASR system at the City of Boynton Beach, and management of the first ever-successful storage of freshwater in a saltwater environment in the Florida Keys. In addition to these ASR projects, Mr. Muniz has managed ASR projects for Miami-Dade County, Broward County, SFWMD Lake Okeechobee, Private client, and has worked on or is working on the City of Sunrise, West Palm Beach, Delray Beach, and Palm Beach County ASR projects.

Mr. Muniz has participated as a team leader for Hazen and Sawyer

on several large-scale municipal projects. For the City of Pompano Beach, Mr. Muniz served as Project Engineer for the recently completed 10-mgd membrane softening water treatment facility. Mr. Muniz also served as engineer for Hazen and Sawyer on the Collier County South County WTP 8-mgd RO Expansion where Hazen and Sawyer is a sub-consultant to another national firm. At the North County Water Reclamation Facility, Mr. Muniz served as project engineer on the recent 5-mgd Expansion project, the Flow Equalization project, and current Water Reclamation Expansion facility to 24.1-mgd project. Mr. Muniz assisted in the design of the Collier County 12-mgd RO WTP Expansion at the South County Facility which was awarded on October 11, 2005.

Mr. Muniz is a Vice President for Hazen and Sawyer and the Southeast Region Director for Water Resources.

Recently, Mr. Muniz has managed and designed wellfield expansions for the Cities of Fort Lauderdale and Pompano Beach. These projects involved consumptive use permitting, design and siting of new production wells, and construction and testing oversight. Both projects have resulted in expanded wellfield capacities and issuance of favorable permit conditions.

Mr. Muniz has or is currently managing many Consumptive Use Permitting projects in Florida, including: Collier County, Pompano Beach, Broward County, Fort Lauderdale, Miramar, Plantation, Hallandale Beach and Cooper City.

Mr. Muniz has worked with regulators from EPA, DEP and the

SFWMD during rule making for Beaumont Basin Watermaster April 25, 2002

Academic Credentials:

BSCE, University of Florida, 1980
Civil Engineering

Professional Engineer - Florida, New York
Florida Licensed General Contractor

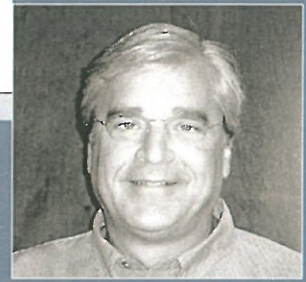
Employment Record

| | |
|--------------|---------------------------------|
| 1996-Present | Hazen and Sawyer, P.C. |
| 1994-1995 | The Muniz Group, Inc |
| 1984-1994 | CH2M Hill |
| 1983-1984 | Jones Edmunds & Associates, Inc |
| 1980-1983 | Southern Bell |

Areas of Expertise

- Groundwater Recharge/Monitoring
- Project Management
- Water Supply Wells
- Deep Well Injection
- Water Resource Planning
- Groundwater Modeling

injection wells including ASR systems. These efforts led to reclassification of ASR wells to facilitate implementation of both treated and untreated systems. Mr. Muniz was instrumental in working with these agencies to obtain raw water permits for Miami-Dade County and Broward County. These two systems were the first permitted untreated ASR systems in Florida. Raw water ASR assists in supplementing supply, allowing utilities to enhance their raw water supply to meet peak demands without increasing their wellfield capacity.



Professional Record

Damann L. Anderson, P.E., has over 30 years of environmental engineering experience in the areas of water resource systems analysis and optimization, water demand forecasting and analysis, groundwater and surface water quality assessments, wastewater characterization and treatment, and wastewater reclamation and reuse. Mr. Anderson is responsible for the planning and management of Hazen and Sawyer staff as well as project management in the areas of demand forecasting and management, drought and water shortage mitigation, and water resource planning and management projects. Representative Tampa Bay Water project experience includes:

Enhanced Surface Water System

Model and Reliability Analysis: Mr. Anderson is Project Director for this project to assess the long-term supply reliability of Tampa Bay Water's Enhanced Surface Water System (ESWS) under conditions of seasonal flow oscillation and drought. A model of the ESWS was developed to simulate WTP production and reservoir storage based on historical as well as Monte-Carlo forecasted river flows, and reliability was gauged by applying a variety of statistical characterization techniques to performance measures such as maximizing WTP production and optimizing reservoir storage.

Regional Demand Management

Plan: Mr. Anderson was Project Manager for development of a regional demand management plan for Tampa Bay Water, Florida's largest wholesale water provider that supplies about 250 MGD to a tri-county region of over 2 million people. The plan was developed to help overcome a projected shortfall in supply over a 20 year planning

horizon. The management plan addressed water needs to the year 2030 and provided a cost-benefit analysis of demand management and reclaimed water options that were projected to reduce potable demand by 40 mgd. The project won the "Future of the Region" Award in the Environmental Category from the Tampa Bay Regional Planning Council.

Mr. Anderson is responsible for the project management in the areas of demand forecasting and management

Downstream Augmentation/

Enhancement Projects: Mr. Anderson is Project Director for Hazen and Sawyer on this multi-disciplinary project to augment surface water supply sources with reclaimed water in exchange for increased withdrawals upstream. Hazen and Sawyer was responsible for the detailed hydraulic analysis and modeling associated with this project, including a unique probabilistic systems analysis model that simulated stochastic streamflows for estimating the yield of various project alternatives.

Long-term Demand Forecasting

System: Mr. Anderson is Project Director for this multi-disciplined project to develop an integrated GIS-based application and model to forecast water demand for Tampa Bay Water and its member governments. The DFS project will provide a tool to routinely update demand projections for water supply planning at the agency.

Future Water Supply Needs Analysis

Mr. Anderson is Project Director for the water supply needs analysis for the Tampa Bay region. He was responsible for conceptualization and implementation of this risk-

Academic Credentials:

MS, University of Wisconsin-Madison, 1980
Environmental Engineering
BS, Arizona State University, 1977
Civil Engineering

Professional Engineer - Florida, Wisconsin,
North Carolina, New York

Employment Record

| | |
|--------------|--|
| 2001-Present | Hazen and Sawyer, P.C. |
| 1985-2001 | Ayres Associates |
| 1981-1985 | RSE, Incorporated |
| 1978-1980 | University of Wisconsin Small Scale Waste Management Project |

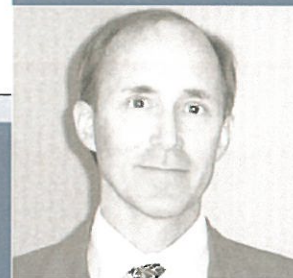
Areas of Expertise

- Surface and Ground Water Quality Assessments
- Water Resources Analysis & Optimization
- Water Demand Management

based, probabilistic analysis of water demand and supply for Tampa Bay Water, which is used to assess quantity and timing of future water supply projects. He routinely presents results of the demand/supply analysis to the Tampa Bay Water Board of Directors and assists the agency in decision making on water supply planning.

Water Shortage Mitigation Plan:

Mr. Anderson was Project Manager for this project to develop a water supply plan to mitigate the impacts of drought on regional supplies for the Tampa Bay Region. Based on a supply reliability analysis of water supply sources, a set of quantifiable, hydrologic based triggers were developed and linked to actions for demand management and supply augmentation to lessen the impact of drought events on regional supplies.



Professional Record

Patrick A. Davis, P.E., has directed or participated in the master planning, permitting, design and construction of water resources facilities in Florida, the Northeast United States and Central and South America. He was a charter member of the AWWA national dual distribution committee and was Chairman of the Florida AWWA Water Reuse Committee. He has directed the largest effluent reuse projects in Florida. The Loxahatchee River Environmental Control District IQ (effluent reuse) system developed by Mr. Davis became the model which the State of Florida used for other communities to follow. This system produces treated effluent to irrigate golf courses in a seventy square mile service area. This project has won awards from the ASCE and has been reported at both national and international technical seminars.

Mr. Davis recently served as Project Director for the construction and testing of a dual membrane pilot treatment plant for the City of Plantation, which included microfiltration and reverse osmosis technology to evaluate recharging the Biscayne Aquifer with highly treated reclaimed water through surface water discharge.

Mr. Davis has assumed a leading role in assisting public utilities and providing regulatory advice on water supply and treatment issues, as well as all facets of wastewater regulations. As such, he currently provides a key role in the implementation of the **Florida Area Coastal Environmental (FACE) Initiative**. The FACE Initiative is expected to encompass many years of data collection, analysis, modeling, risk assessment and ultimately resolution of certain environmental issues including those

associated with the open ocean discharge of secondarily treated effluent and the impacts of urban and agricultural runoffs as well as natural occurrences. The studies of FACE (unionized ammonia, N14/N15 ratio, deep ocean upwelling, etc.) are ongoing.

Mr. Davis has directed a hydrodynamic salinity barrier study for the City to recycle 4-20 mgd of reclaimed water.

Hollywood Salinity Barrier Study:

For the City of Hollywood Mr. Davis conducted effluent reuse filter full scale test studies. He directed the implementation of the City of Hollywood 8 mgd reclaimed water system. Mr. Davis also directed a hydrodynamic salinity barrier study for the City to recycle 4 to 20 mgd of reclaimed water. Mr. Davis was in charge of the toxicity removal study for the City of Hollywood relating to reuse (organo-phosphate removal).

Miramar Dual Distribution System:

For the City of Miramar, Florida, Mr. Davis directed the planning, design and construction supervision of a large scale dual distribution system and subsequent expansion. The project is designed to gain detailed water use data in southeast Florida. He also developed the Key Largo Grey Water System (Interior Water Usage).

Mr. Davis has directed pipeline route selection, network hydraulic analysis, pipeline design and installation for various local clients. He directed Broward's \$27 million regional wastewater transmission system project in 1991-96. Mr. Davis served as Project Director for the Program Management of Broward County Districts I and II \$8 million sewer

Academic Credentials:

BSCE, University of Massachusetts, Dartmouth, 1980

Professional Engineer - Florida, New York, Massachusetts, Virginia, North Carolina

Employment Record

| | |
|--------------|------------------------|
| 1985-Present | Hazen and Sawyer, P.C. |
| 1984-1985 | Havens & Emerson |
| 1980-1984 | Hazen and Sawyer, P.C. |
| 1979-1980 | G.H.R. Engineering |

Areas of Expertise

- Planning, Permitting, Design and Construction of Wastewater, Water and Stormwater Facilities
- Water Resource and Reuse Planning

rehabilitation program to remove 8.51 mgd of excessive I/I.

Mr. Davis has performed as project manager on three of the largest effluent reuse projects in South Florida, including hydraulic network analysis. Mr. Davis has performed similar network analyses for clients throughout Florida and the northeast.

For the City of Fort Lauderdale, Mr. Davis was project manager of a 54-inch diameter pipeline project through Port Everglades to the injection well site. For the City of Tamarac, he directed the study, design and implementation of the 30-inch force main from Commercial Boulevard to Sample Road. The route selected represented substantial savings versus the route originally planned by others.



Professional Record

John M. Clayton, Ph.D., is an environmental engineer in Hazen and Sawyer's Atlanta and Tampa Offices. Dr. Clayton has expertise in modeling and forecasting of water demand and supply (including probabilistic and mechanistic methods), supply reliability analysis, statistical hydrology, and optimization and numerical methods in systems and operational modeling. Representative recent project experience includes:

Long-term Water Demand Forecasting System, Tampa Bay Water:

Dr. Clayton is project engineer and a technical leader in the ongoing development, maintenance, and revision of point and probabilistic water demand forecasting models for Tampa Bay Water. This effort consists of developing models relating regional socioeconomic and weather data to billed retail demand and total delivered consumption. The models allow demand forecasts to be conditioned on expected regional growth and weather as well as uncertainty in these parameters. Dr. Clayton's responsibilities include identification, processing, and analysis of modeling data, conceptualization, development, testing, and implementation of models, participation in end-user application development, statistical analysis of forecasting results, and development of model documentation.

Stochastic Modeling of Surface Water Supply, Tampa Bay Water:

Dr. Clayton was the lead researcher and developer for novel stochastic models that describe long-term performance variability of Tampa Bay Water's Enhanced Surface Water System (ESWS). The ESWS relies on flow-permitted surface water withdrawals from three local streams which supply a surface water treat-

ment plant (SWTP) and off-line storage reservoir. Stochastic flow models described monthly- and daily-scale seasonality, correlations and uncertainty among flows, and meteorological and water management influences on flows. Operational models described daily SWTP and reservoir operations based on permitted withdrawal values. Flow and operational models were combined to describe variability and long-term expectations in ESWS performance. This model has been used in numerous subsequent projects.

Dr. Clayton has expertise in modeling and forecasting of water demand and supply (including probabilistic and mechanistic methods), supply reliability analysis, statistical hydrology, and optimization and numerical methods in systems and operational modeling.

Future Need Analysis, Tampa Bay Water:

Dr. Clayton is the technical lead in ongoing long-term water supply needs analysis for the Tampa Bay region. Analyses couple Tampa Bay Water's probabilistic demand model and long-term stochastic surface water supply model to simulate timing, sizing, and risk of supply shortfall relative to regional growth and drought over a 25-year forecast period. This analysis is continually utilized by Tampa Bay Water to plan sizing and timing of future capital investments in water supply expansions.

Development of Models for Short-term Probabilistic Forecasting of Total Regional Delivery, Tampa Bay Water:

Dr. Clayton is project manager and engineer in the development

Academic Credentials:

PhD, Georgia Institute of Technology, 2003
Environmental Engineering
MS, Georgia Institute of Technology, 1999
Environmental Engineering
BS, Clemson University, 1994
Ceramic Engineering

Professional Engineer - Florida

Employment Record

2003–Present Hazen and Sawyer, P.C.
1991–1994 National Brick Research
Center (Clemson University)

Areas of Expertise

- Potable Water Demand: Analysis, Modeling and Forecasting
- Potable Water Supply: Modeling of Surface Water Hydrology and Surface System Operations
- Reliability Analysis: System/Policy Design

of models to forecast total wholesale delivery of water by Tampa Bay Water to its Member Governments. The models forecast total delivery by member as a function of upcoming weather (and weather uncertainty) over a 6-12 month forecast horizon. Dr. Clayton's responsibilities include identification, processing, and analysis of modeling data, conceptualization, development, testing, and implementation of models, participation in end-user application development, statistical analysis of forecasting results, and development of model documentation.



Professional Record

George A. Brown, Jr., P.E., has managed and/or participated in numerous water supply and water transmission system projects from master planning, conceptual planning, detailed design, permitting through construction and startup.

Annual Saltwater Intrusion Monitoring Report, City of Fort Lauderdale, FL: Mr. Brown has prepared the Annual Saltwater Intrusion Monitoring Report for the City of Fort Lauderdale from 2003 through present. The report evaluates water quality data and provides operating recommendations to ensure that the City operates their wellfield in a manner that prevents saltwater intrusion.

Dixie Wellfield Improvements, City of Fort Lauderdale, FL: Mr. Brown recently served as the project manager for the City of Fort Lauderdale Dixie Wellfield Improvements. This project included design and construction services for eight new water supply wells and about 13,000 feet of raw water piping. The pipe ranged from 16 to 30-inch diameter. These wells were completed to a depth of about 120 feet below land surface in the Biscayne Aquifer. The final construction cost for this project was about \$9.2 million.

Water Master Plan, City of Fort Lauderdale, FL: In the field of water master planning, Mr. Brown recently managed the update to the City of Fort Lauderdale Water Master Plan. This project focused on transmission system improvements to meet the year 2025 water demand. The report recommended \$276 million in water infrastructure improvements over the next twenty years. The projects were mostly related to maintaining the reliability of the existing water

distribution system and water supply infrastructure.

Mr. Brown has participated in numerous water supply and water transmission system projects

South Andrews Avenue Water Main, City of Fort Lauderdale, FL: Mr. Brown recently served as project manager for the design of City of Fort Lauderdale South Andrews Avenue Water Main project along with the City's directional drill river crossings at SE 1st Avenue and SW 7th Avenue. The water main project is currently in construction and the directional bore project is currently being permitted for construction.

Dixie Wellfield Raw Water Pipeline, City of Fort Lauderdale, FL: In the field of water supply, Mr. Brown currently serves as the project manager for the design of about 5,000 feet of 30-inch diameter raw water pipeline for the City of Fort Lauderdale Dixie Wellfield. About 2,400 feet of the pipeline will be in the right-of-way of a major state road with many existing underground utilities.

Floridan Aquifer Wellfield, City of Fort Lauderdale, FL: Mr. Brown currently serves as the project manager for the planning and design of the program at the Dixie Wellfield. Recently completed deliverables include the completion of a conceptual plan recommending the design and construction of three Floridan Aquifer water supply wells and transmission facilities. Mr. Brown is assisting the City procure raw water transmission piping for the proposed wells.

Academic Credentials:

BS, University of Florida, 1996
Environmental Engineering

Professional Engineer - Florida

Employment Record

1994–Present Hazen and Sawyer, P.C.
1994 - 1996 Tampa Electric Company

Areas of Expertise

- Water and Wastewater Process and Mechanical Design
- Pumping, Storage and Transmission Line Design
- Chemical Feed Design
- Water Supply and Treatment Planning

Water Master Plan, City of Fort Lauderdale, FL: Mr. Brown recently managed the update to the City's Master Plan focused on transmission system improvements to meet the year 2025 water demand. The report recommended \$276 million in water infrastructure improvements over the next 20 years.

Water Pump Station, City of Cooper City, FL: In the field of water distribution, Mr. Brown served as project manager for the design and permitting of the 6-mgd water pump station. The pump station is designed to maintain water distribution system pressure. Permitting included obtaining development permission via hearings with the City's Development Review Committee, Planning and Zoning Board and final approval by the City Commission. The construction for this project was awarded in 2011 for a bid of \$1.74 million.



Professional Record

Robert B. Taylor, Jr., P.E., is Hazen and Sawyer's national contact and Southeastern US Region Technical Director in the field of Stormwater Management, has managed and completed numerous water resource and stormwater management projects. These project assignments have included elements of stormwater utility development, utility financing, planning, design, permitting, construction and maintenance. Mr. Taylor is familiar dealing with stormwater management regulatory criteria on the local, state and federal levels. Representative projects include:

Stormwater Advisory Committees/

Roles: Mr. Taylor served as a member of the original Stormwater Advisory Committee for the Florida Water and Pollution Control Operators Association (FW&PCOA). Under a grant from the Florida Department of Environmental Regulation, this committee developed a curriculum for certifications at three levels in the field of stormwater management. He has also been the Steering Committee Secretary for the Palm Beach County National Pollutant Discharge Elimination System (NPDES) Stormwater Permit Program. Mr. Taylor is a longtime member of the Florida Stormwater Association, and he has helped facilitate seminars for that organization and was a contributing author on the Association's Guidance Manual for Establishing a Stormwater Utility in Florida.

Stormwater Utility Programs:

Developed Stormwater Utility Programs for the Loxahatchee River District, the City of Stuart, the City of Delray Beach, City of Palm Bay, the City of North Bay Village, St. Lucie County, the City of Hollywood, the City of Miramar, the City of Fort Myers, and a utility update for the

City of Oakland Park. He is currently developing a utility in Reading, PA.

Mr. Taylor is Hazen and Sawyer's national contact and Southeastern US Region Technical Director in the field of Stormwater Management

Stormwater Capture/Recharge:

Mr. Taylor's experience includes managing/directing various water resource projects aimed at stormwater recharge, water reclamation, and aquifer recharge. These efforts have included elements of planning, design, permitting, construction and operations. Notable projects include: the Town of Jupiter Recharge System, which diverts and impounds surface waters (otherwise lost to tide) for surficial aquifer recharge; Town of Jupiter/Loxahatchee River District Nanofiltration concentrate/reclaimed water blending project, which allows beneficial reuse of WTP concentrate (otherwise lost to deep injection well disposal); and the City of Sunrise Southwest WWTP Upgrade and Percolation Pond Rehabilitation (increasing potential recharge by up to 100%).

Project manager for NPDES Permitting Programs: City of Hollywood, City of Delray Beach, City of Stuart, and St. Lucie County.

Preparation of Flood Insurance Studies and/or Stormwater Master Plans: Sarasota County, Hillsborough County, City of Clearwater, City of Delray Beach, City of Plantation, City of Hollywood, and Town of Jupiter.

Project Manager for General Stormwater Consulting Assignments:

City of Hollywood, City of Stuart, St. Lucie County, and Town of Jupiter.

Academic Credentials:

ME, University of Florida, 1987, Engineering
BS, University of Florida, 1985, Engineering

Professional Engineer - Florida, New York

Employment Record

| | |
|--------------|---|
| 1992–Present | Hazen and Sawyer, P.C. |
| 1990–1992 | City of Delray Beach, Florida |
| 1987–1990 | Gee & Jenson, E.A.P., Inc. |
| 1985–1987 | University of Florida Agricultural Engineering Department |

Areas of Expertise

- Stormwater Capture/Recharge
- Project Management
- Hydrologic and Hydraulic Modeling
- Water Resources Engineering and Planning
- Stormwater Management
- Stormwater Utility Implementation
- NPDES Permitting/Compliance

among others. Mr. Taylor provided services such as: Stormwater Utility Development and Implementation, Stormwater Masterplan, NPDES Permitting, Miscellaneous Stormwater / Studies / Capital Improvements, Stormwater Financing Study, Primary Stormwater Management System Needs Analysis, Miscellaneous Basin Studies, Stormwater Infrastructure Cleaning, Repair/Rehabilitation, and Stormwater Asset Management. Mr. Taylor has also been integrally involved in Public Relations programs for his clients and has helped obtain millions of dollars of grant funding for their stormwater management and water resource projects.



Professional Record

Jack C. Kiefer, Ph.D. is an economist and geographer specializing in multiple consulting areas of water resource economics and planning, econometrics, and integrated water demand and supply planning and management. Prior to joining Hazen and Sawyer, Dr. Kiefer led CDM's Water Economics group and was a Lead Practitioner in the area of Water Resources. Before joining CDM, Dr. Kiefer directed Planning and Management Consultants, Ltd.'s Water Resources Research program and its five business service lines of Integrated Water Demand and Supply Planning, Resource Economics and Quantitative Analysis, Navigation Analysis, Military Resources Planning and Environmental Planning.

Dr. Kiefer is an expert in forecasting the demand for potable water. He has performed numerous analyses of water demand, including the development of long-term water demand forecasts for some of the largest water utilities in the United States, including the Metropolitan Water District of Southern California, Tampa Bay Water, and San Diego County Water Authority. Dr. Kiefer is also an expert in conducting empirical evaluations of demand management programs. He has led water conservation studies for large utilities in the Southwest and has served as principal investigator on two studies for the American Water Works Association Research Foundation (AWWARF), where he led statistical evaluations of end uses of water in municipal and industrial sectors.

Dr. Kiefer has more than 15 years of consulting experience with the U.S. Army Corps of Engineers (Corps) for whom he directed economic and water resources planning studies. He

has addressed the Corps' major Civil Works program functions, including Water Supply, Hydropower, Navigation, Recreation, Ecosystem Restoration, and Flood Damage Reduction. Dr. Kiefer has considerable expertise in the areas of risk analysis, multi-purpose planning, and multicriteria decision-support techniques.

Dr. Kiefer has performed numerous analyses of water demand, including the development of long-term water demand forecasts for the Metropolitan Water District of Southern California

Principal Investigator, Long-Term Forecast of Water Demands, Tampa Bay Water:

Dr. Kiefer is currently working with Tampa Bay Water to update its long-term forecast of water demands. He is managing the development of econometric models within a probabilistic framework that accounts explicitly for forecasting uncertainties. The models are designed to estimate the impact of reclaimed service on potable demands and forecast potable offsets over the planning horizon as a function of the proportion of connections that have active access to reclaimed water.

Project Manager, Study of Institutional and Legal Environment of Texas Water Supply Allocation:

As part of a study titled "Texas Water Allocation Assessment: Review of Corps Authorities, Policies and Procedures," Dr. Kiefer managed the development and analysis of the institutional framework involved in water supply development and management in the State of Texas. Efforts focused on the discovery, collection and transmission of water (i.e., water quantity) as opposed to water qual-

Academic Credentials:

PhD, Southern Illinois University, 2004
Geography
MA, Southern Illinois University, 1990
Monetary and Development Economics
BA, Southern Illinois University, 1988
Economics

Employment Record

2007–Present Hazen and Sawyer, P.C.
2003–2007 Camp Dresser & McKee, Inc.
1990–2003 Planning and Management Consultants, Ltd

Areas of Expertise

- Econometric Analysis and Forecasting
- Water Supply Reliability Planning
- Impact and Process Evaluation
- Risk and Uncertainty Analysis
- Water Resources Planning
- Economic Analysis

ity. The overarching goal was to provide the Corps information that it can use to analyze how existing Federal laws and congressional authorizations help or hinder the Corps in their efforts to assist Texas in developing and managing water supply.

Project Manager/Principal Investigator, Water Demand Forecasts for San Diego County Water Authority:

Dr. Kiefer has managed the development of three consecutive water demand forecasts and forecast updates for the San Diego County Water Authority. Original efforts involved the development of econometric models of M&I water demands, which were followed by development of predictive models for agricultural demands. Recent he's developed and applied risk-based simulation procedures to support long-term supply reliability and capital improvement planning.



Professional Record

Megan S. Yoo is an intuitive innovator who delivers successful projects with sound technical information within an aesthetically pleasing presentation. Her engineering background provides the ability to strategically integrate key technical concepts into a clear, well-defined message. She is a dedicated member of water/wastewater related professional associations since 2004 and has done extensive work with Microsoft Office Applications, Adobe Acrobat Professional and Microsoft Project. Over the course of her career, Ms. Yoo has also done the following:

- Performed extensive data analysis and calculations; checked and verified complete calculations.
- Researched regulatory information, grant funding opportunities and other background information for a variety of projects.
- Wrote, edited, formatted and revised technical documents and proposals (i.e., independent evaluations, preliminary design reports and summaries, technical memoranda, etc.).
- Collected information, reviewed and assembled cost estimates, specifications, water quality data, etc.
- Designed graphical artwork and produced over 15 copies of a 1,000-page document with matching cd jewel case and label.
- Created numerous original technical and artistic graphics, charts, and figures for proposals, reports, presentations, etc. using tools such as Microsoft PowerPoint, Excel and Adobe Photoshop.

- Calculated various flows and created relevant spreadsheets and process flow diagrams.
- Developed and maintained database of client websites and RFPs.

Ms. Yoo's engineering background provides the ability to strategically integrate key technical concepts into a clear, well-defined message

Select project experience includes:

Orange County Water District Groundwater Replenishment System Advanced Water Purification Facility Expansion: Served as a key member of the proposal development team; wrote project background, water quality and regulatory and permitting chapters in preliminary design report; created numerous process schematics and researched several energy recovery grants.

Chino Basin Watermaster Dry Year Yield Program: Created process schematics, site maps and cost estimates for construction and implementation of all wells; designed and produced matching report covers and cd jewel cases with custom graphics.

City of Santa Monica Charnock Well Field and Treatment Plant: Calculated waste flows for the water treatment plant; created process schematics and spreadsheet for waste flows.

Academic Credentials:

BS, University of California, Irvine, 2012
Chemical Engineering

Employment Record

2012–Present Hazen and Sawyer, P.C.
2010–2012 HDR Engineering, Inc.
2008–2009 Black & Veatch Corporation
2006–2007 Los Angeles County Sanitation Districts

Areas of Expertise

- Civil, water and wastewater engineering

California Department of Water Resources Confidential Project:

Performed hydraulic calculations for open channels, conducted sediment mass balances, created and edited drawings and process flow diagrams.

City of Oxnard GREAT Recycled Water Backbone System: Contributed to the preliminary and final Preliminary Design Reports.

Annual Saltwater Intrusion Groundwater Monitoring Report

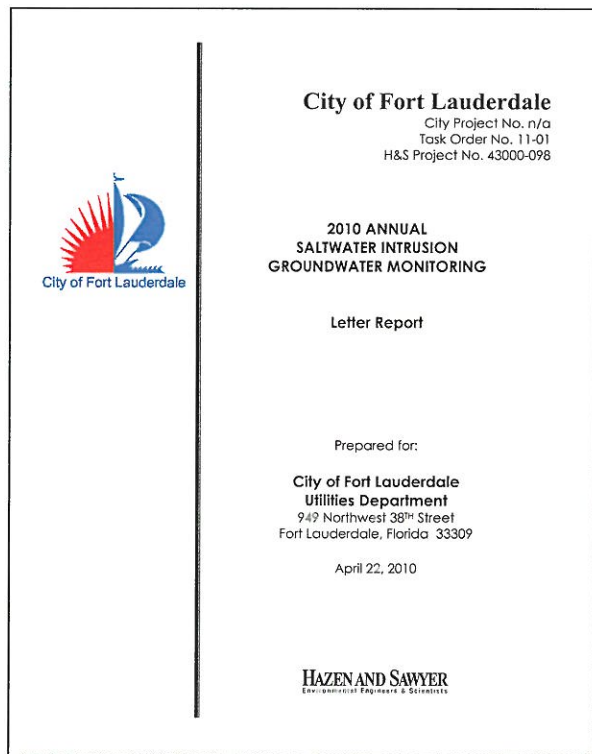
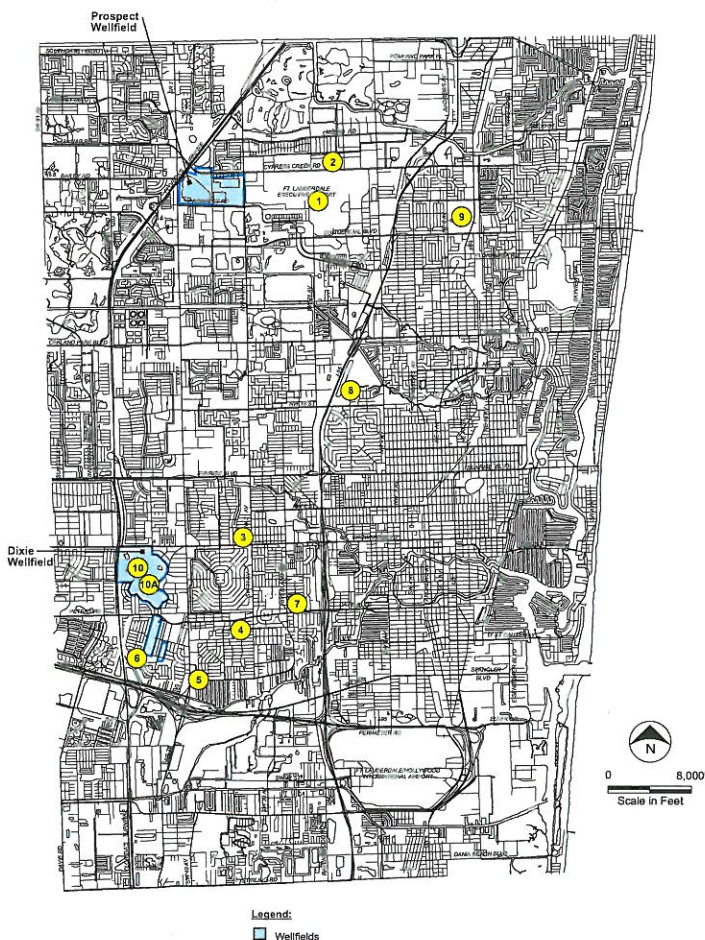
FORT LAUDERDALE, FLORIDA

In 2001 the City of Fort Lauderdale retained Hazen and Sawyer to design and construct a saltwater intrusion monitoring well system under a design-build agreement. Ten saltwater monitoring wells were constructed. The figure below illustrates the location of the saltwater intrusion monitoring wells. The saltwater intrusion monitoring wells are used to assess the position of the saltwater front nearby the City's Prospect Wellfield and Dixie Wellfield. These wellfields provide approximately 45 million gallons per day of water from the Biscayne Aquifer to the City's treatment plants. The City of Fort Lauderdale collects water quality data from their saltwater intrusion monitoring wells and provides these data to Hazen and Sawyer for review and interpretation.

The City of Fort Lauderdale has retained Hazen and Sawyer to prepare their Annual Saltwater Intrusion Groundwater Monitoring Report every year since 2003. This Annual Report documents the water quality data that were collected, water production is documented, opinions on the meaning of the data are provided and recommendations related to wellfield operations are offered. This report is annually submitted to the South Florida Water Management District to maintain compliance with the City's wellfield operating permit.

Reference

Hank Breitenkam
Director of Utilities
City of Plantation
400 Northwest 73 Avenue
Plantation, Florida 33317
(954) 797-2285
Fax: (954) 797-2720
hbreitenkam@plantation.org



Reclaimed Water / Surface Water Aquifer Storage and Recovery (ASR) Project

NAPLES, FLORIDA

The City of Naples selected Hazen and Sawyer to investigate concepts to minimize potable water consumption. Faced with above average irrigation demands, the City began evaluation of options to reduce potable demands.



The City presently uses a combination of reclaimed water and potable water to meet irrigation demands. Potable water is used to makeup shortages during periods when demands exceed supplies. On average, over 10.40 mgd is typically needed for irrigation while reclaimed water is limited to 7.32 mgd. The

deficit is addressed with potable water. During wet weather conditions, the City uses surface water discharge for disposal of excess reclaimed water.

Alternative water supply options were evaluated and a strategy to maximize use of reclaimed water with supplemental excess surface water was identified as a feasible option. The result of the evaluation was maximize use of 100% of available reclaimed water with the use of aquifer storage and recovery (ASR) to supplement onsite above ground storage. Use of ASR would provide ample shortage at a relative low cost and eliminate surface water discharge of

a valuable resource to a sensitive ecosystem. In addition, Hazen and Sawyer worked cooperatively with the City and regulatory agencies to obtain permits from excess surface water sources to meet the irrigation demands.

The Hazen and Sawyer team provided a wide range of services ranging from studies and permitting through design and construction. An initial step in the reclaimed water / surface water ASR program was preparation of a Water Use Permit (WUP) renewal application to secure existing supplies. This step was successfully accomplished and the South Florida Water Management District (District) renewed the City's WUP.

The second step was permitting of an ASR test well through the Florida Department of Environmental Protection (FDEP). A permit was prepared and issued to allow data collection and to confirm site specific hydrogeologic conditions. Hazen and Sawyer provided construction and testing oversight and prepared a well completion report to summarize findings. Testing resulted in selection of a storage horizon below the 10,000 mg/l TDS interface to facilitate permit.

One 24-inch diameter ASR test well (i.e., ASR-1) was constructed as part of this project. The well has a total depth of 1,350 feet with

1,080 feet of casing. Packer testing suggested that the 10,000 mg/L TDS interface occurs around 760 feet below land surface.

The solution to the City's high irrigation demands was unique in many respects. First, it provides additional storage to

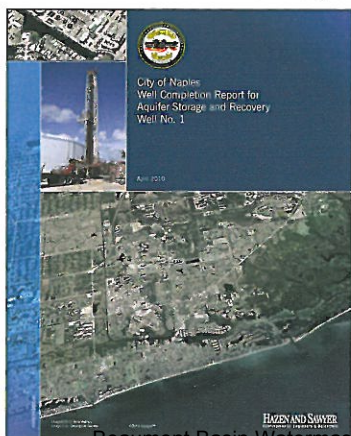
Reference

Robert (Bob) Middleton, P.E.
Utilities Director
City of Naples
380 Riverside Circle
Naples, Florida 34102
(239) 213-4714
bmiddleton@naplesgov.com

use of reclaimed water that would otherwise be discharged to the Gordon River and lost as a resource. Supplementing the reclaimed water was also unique and provides a hybrid ASR system to again utilize another unused resource (i.e., use of excess surface water from the Golden Gate Canal which is presently being discharged to tide).

The concept of using excess available resources has many beneficial uses including minimization of surface discharges to an environmentally sensitive area. By providing replacement water to meet irrigation demands, the City is able to significantly extend the useful life the existing potable water system and defer capital expenditures. A final benefit is the gathering of scientific information for future use in a hydrogeologic setting that was never before tested.

All of the information was obtained via a collaborative cost partnership program. Hazen and Sawyer assisted the City in meeting all milestones needed to secure the requested funding assistance.



HAZEN AND SAWYER
Environmental Engineers & Scientists

Broward County North Regional Water and Wastewater Annual Report FY 2010 and 2011

BROWARD COUNTY, FLORIDA

Hazen and Sawyer has assisted Broward County with their Annual Reports since 2001. We recently completed the Annual Report for Fiscal Year 2010 for Broward County Water and Wastewater Services (BCWWS) and are currently preparing the Annual Report for Fiscal Year 2011. The projects include the following tasks:

- A review of the management and organization of BCWWS which operates the County water and wastewater systems (collectively, the Utility)
- A description of the Utility, including detailed descriptions of ongoing repair and improvement projects and recommendations for upcoming projects
- A financial review of the Utility regarding historical and prospec-

tive debt service coverage, insurance requirements, and future system funding needs

- A summary of projections of future impacts on the Utility, projections of revenues and expenses, and a review of the planned capital improvements of the Utility

The Annual Reports provide the County with an overview of the water and wastewater system facilities and capabilities. The report breaks down the wastewater system characteristics and summarizes the treated water sold throughout the County.

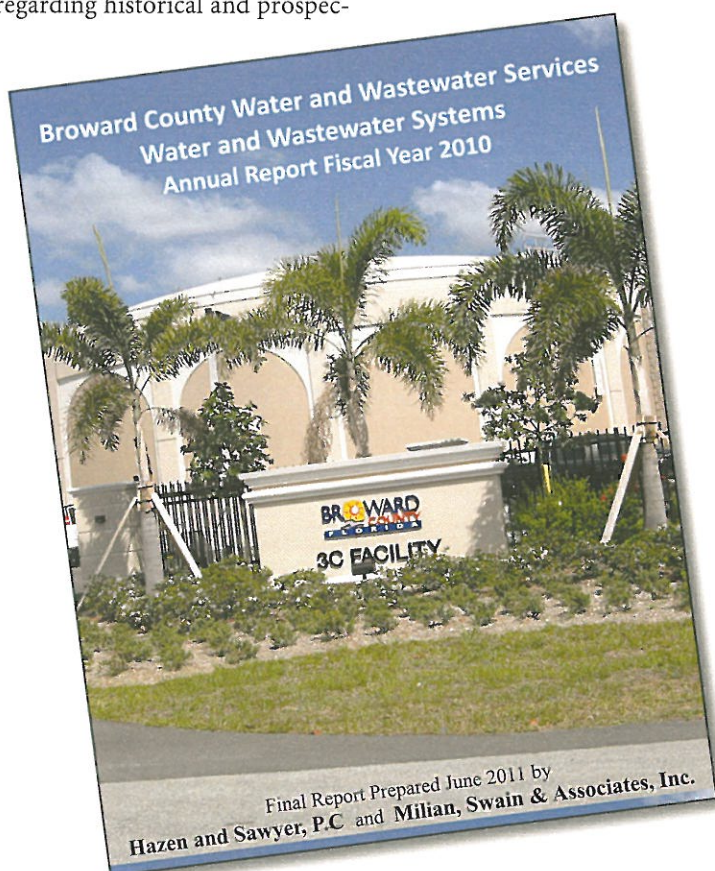
Additionally, the Annual Reports summarize the following financial considerations for WWS:

Reference

Alan W. Garcia, P.E.
Director
Broward County
Water and Wastewater Services
2555 West Copans Road
Pompano Beach, Florida 33069
(954) 831-0705
Fax: (954) 831-0789 / 0925
agarcia@broward.org

- Water and sewer monthly costs for residential customers
- Schedule of retail rates minimum monthly charges by customer class and meter size
- Schedule of retail rates volume charge (per 1,000 gallons) by customer class and meter size
- Retail water and wastewater billing volumes
- Automatic rate adjustments for periods of mandated water restrictions
- Historical and projected ratios of large users' revenue to total revenues and wastewater fiscal years 2006 to 2015
- Comparative rate survey for FY 2010 (usage of 5,000 gallons per month)

Furthermore, the County recently utilized the detailed site visit reports developed under this effort to complete the Engineer's Bond Report for Series 2012A Bond attainment. Hazen and Sawyer assisted the County directly (attended meetings, authored sections, etc) with the preparation of the Engineer's Bond Report.



City of Plantation

Water and Wastewater Annual Audits

PLANTATION, FLORIDA

Hazen and Sawyer is presently completing the annual audit for the City of Plantation for the fiscal year 2011. The annual audits began in 2008 as a request from the City to 1) document how efficiently the two water treatment plants and wastewater treatment plants were being operated and 2) to provide recommendations for continued operational improvements. As a result of site visits and summary documentation in 2008, the City implemented several operational protocol revisions that have saved power requirements for the facilities. Primarily, at the East WTP, the City recently purchased new membrane elements, operating at a lower feed pressure, saving the City thousands of dollars per years in membrane boost pumping. The City is preparing to purchase the same elements for the Central WTP as well.

The audits include the following primary elements:

- A detailed site visit report of annual visits to the three treatment facilities: The East WTP, the Central WTP, and the Regional WWTP
- A description of the three treatment facilities, including detailed descriptions of ongoing repair and improvement projects and recommendations for upcoming projects
- A summary of the water billings and wastewater billings vs the water produced and wastewater treated

Additionally, the audits summarize the following financial considerations for the City:

- Water and sewer monthly costs for residential customers
- Schedule of retail rates minimum monthly charges by customer class and meter size
- Schedule of retail rates volume charge (per 1,000 gallons) by customer class and meter size
- Retail water and wastewater billing volumes

Reference

Hank Breitenkam
Director of Utilities
City of Plantation
400 Northwest 73 Avenue
Plantation, Florida 33317
(954) 797-2285
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hbreitenkam@plantation.org

The City is presently working with a financial rate consultant to pursue \$100 million of bonding capacity. The City is utilizing the annual audit as a basis for the pursuit of these bonds.



Coastal Salinity Barrier Project

CITY OF HOLLYWOOD, FLORIDA

Municipalities along Florida's southeast coastline have experienced tremendous growth over the last two decades which has significantly stressed their utilities. One of the areas of most concern has been the ability to sustain adequate water supplies from eastern wellfields without adverse impacts due to saltwater intrusion. While many steps have been initiated to conserve and reuse water, high demands continue to stress existing groundwater supplies.

The City of Hollywood has implemented land application reuse systems along with a strong water conservation program. The City is continuing with their efforts to manage their resources to ensure adequate supplies for future generations. One innovative program that the City of Hollywood has initiated is the development of a coastal salinity barrier project.

The coastal salinity barrier project is unique (first in the State)

for the State of Florida. This project will inject filtered, secondary wastewater, currently used for golf course irrigation, into the surficial aquifer system in an attempt to create a groundwater divide. The groundwater divide will theoretically create a fresh water mound to off-set advancement of the saltwater interface.

A monitoring network of wells was designed and installed to collect both water level and water quality data based on results of ground water modeling performed. The wells will allow definition of mounding and inland tracking of both the recharge water and the salt interface.

In addition to water levels and water quality, monitoring of flows will also be performed. Withdrawals will be based on monitoring data and adjusted as needed.

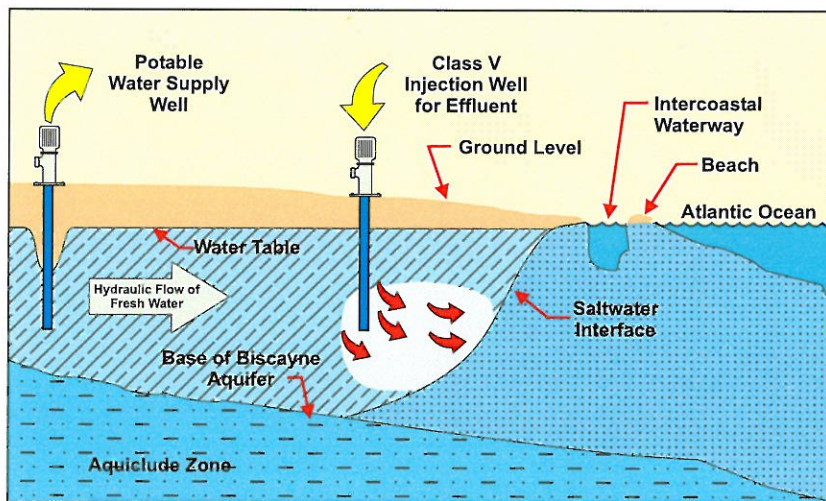
Presently the City has begun the program with design, groundwater modeling, permitting and

Reference

Steve Joseph, P.E.
Deputy Director – Operations
City of Hollywood
Post Office Box 229045
Hollywood, Florida 33022-9045
(954) 921-3522

construction of the monitoring well network. The next step will be to construct injection wells and begin pilot testing.

The hydrodynamic barrier concept has great potential for not only increasing reuse potential for all coastal communities, but in managing threats of saltwater intrusion. The South Florida Water Management District is supportive of this effort and is a financial partner, funding 50 percent of the project costs.



South Central Regional Wastewater Treatment Plant Deep Injection Well System

DELRAY BEACH, FLORIDA

The South Central Regional Wastewater Treatment & Disposal Board (SCRWTDB) operates a 24-mgd regional wastewater treatment plant (WWTP) that serves the Cities of Boynton Beach and Delray Beach. The WWTP produces high level disinfected recycled water for irrigation. The primary disposal method is reuse. As a backup to reuse disposal and to address emergency conditions, a Class I injection well was constructed. Previously, the SCRWTDB relied on an open ocean outfall for disposal of treated effluent beyond the demands of the reuse system. The new injection well provides the needed capacity and replaces ocean outfall disposal as the secondary means of effluent disposal.

The injection well system at the South Central WWTP consists of one 24-inch diameter Class I injection well and one 6-inch diameter dual-zone monitor well. The final string of casing at the injection well is set to a depth of 2,430 feet below grade, with a nominal 24-inch diameter open hole drilled to 3,024 feet in depth. The Floridan Aquifer monitor wells are dual casing design, with an outer 16-inch casing monitoring a depth of 1,600 feet below grade and the inner 6-5/8

inch casing set to 1,825 feet below grade. The upper monitor zone monitors an interval from 1,600 to 1,640 feet, while the lower monitor zone monitors an interval from 1,825 to 1,860 feet in depth.

The project has been in the operational testing phase as of August 2009. An operating permit was secured in April 2011.

Hazen and Sawyer has provided planning, design, permitting, procurement, construction management services, and daily construction oversight for the entire project as well as the recent wastewater expansion that included the surface facilities (i.e., pumping system, instrumentation, etc.). Planning activities included establishment of well locations, evaluation of the surge relief, and surface equipment. Hazen and Sawyer prepared construction drawings for all wells and surface equipment, and assisted the SCRWTDB with procurement through both open bid and sole-source procurement for the construction.

Hazen and Sawyer has provided all required permitting assistance for construction permitting, operational testing, mechanical integrity testing, and preparation of an oper-

Reference

Mr. Dennis Coates
Executive Director
South Central Regional Wastewater
Treatment and Disposal Board
1801 North Congress Avenue
Delray Beach, Florida 33445
dcoates@scrwwtp.org
Office: 561-272-7061

ating permit.

Construction management services included field observations, evaluation of hydrogeologic data, preparation of reports, coordination of construction activities with the driller and the regulatory agencies, and contract administration. Upon completion of construction, Hazen and Sawyer prepared completion of construction records including drawings, reports, and operation and maintenance manuals. Hazen and Sawyer services are extending throughout the operation of the well with on-going services for general assistance.

Construction started on November 19, 2007 and was completed on October 31, 2008. Professional services are ongoing.

Size

One 24-inch diameter injection well and one dual-zone monitor well.

Cost

- \$6,297,384 (Bid)
- \$6,191,380 (Actual)



City of Fort Lauderdale Dixie Wellfield Improvements

FORT LAUDERDALE, FLORIDA

The City of Fort Lauderdale (City) provides potable water to approximately 245,000 customers. The City replaced their existing lime softening facilities at the Peele-Dixie WTP with a 12 mgd finished water capacity nanofiltration water treatment plant. The wellfield associated with the lime softening facility is capable of providing about eight million gallons per day (mgd). Due to limitations and the age of the existing wells, the City decided to construct a new 15 mgd capacity wellfield to replace the existing wellfield. The new wellfield went into full time service in mid-2007.

The City of Fort Lauderdale retained the services of Hazen and Sawyer to evaluate, permit, and design wellfield improvements for

the Dixie Wellfield. The City elected to proceed with the Dixie Wellfield Improvements in a phased approach.

The following briefly summarizes the scope of work Hazen and Sawyer provided.

Phase 1 - Assessment and Test Well Construction

Phase 1 work included the engineering associated with the rehabilitation of two existing 12-inch diameter steel cased production wells at the Dixie Wellfield. Additionally, two new 24-inch diameter PVC cased production wells were designed and constructed. The rehabilitated wells and the new wells were tested to collect aquifer performance data needed for Phase 2.

Phase 2 - Modeling and Evaluation

Under Phase 2, the aquifer performance data obtained during Phase 1 was used to update the groundwater model of the City's wellfield. The updated groundwater model was then used to evaluate the ability of alternate wellfield configurations to provide a safe yield that did not induce the movement of the saltwater front. Alternative wellfield configurations included all new wells, all rehabilitated existing wells and combinations using new and rehabilitated existing wells.

The modeling results showed that all wellfield configurations considered were able to provide a safe yield of 15 mgd from the Dixie Wellfield.

Reference

Albert J. Carbon, III, P.E.
Public Works Director
City of Fort Lauderdale
100 North Andrews Avenue
Fort Lauderdale, Florida 33301
(954) 828-5290
acarbon@fortlauderdale.gov

Phase 3 - Wellfield Basis of Design

The purpose of Phase 3 was to evaluate the construction costs of the alternative wellfield configurations identified under Phase 2. Additionally, enhancements to the raw water transmission system, wellfield primary and backup power systems, and wellfield control system, were identified and evaluated.

Based on budgetary capital construction costs, present worth analyses, and other non-cost factors, Hazen and Sawyer recommended the final wellfield configuration and raw water transmission system improvements for design under Phase 4.

Phase 4 - Wellfield Design and Construction Services

Under Phase 4, Hazen and Sawyer provided engineering services during design and construction of eight water supply wells, a backup power system and about 15,000 feet of pipe. Construction was completed in late 2008.

Phase 5 - Pipeline Extension

Under Phase 5 the Dixie wellfield raw water pipeline is being extended. This phase is currently under construction.



Photo of New Well



Photo of New Generator Building

WS

City of Pompano Beach Saltwater Monitoring Program and Safe Yield Analysis

FORT LAUDERDALE, FLORIDA

Pompano Beach has two wellfields that supply raw water to their lime softening water treatment plant. Their western wellfield is a fairly new wellfield and is located adjacent to the Florida Turnpike. The older eastern wellfield is located between Federal Highway and Dixie Highway, near the Intra-Coastal Waterway which is in close proximity to the City's coastal wellfield that has excellent raw water quality. The saltwater interface in this part of Broward County has been detected around Federal Highway, and in some instances west of the highway. Confirmation of the exact location of the saltwater front is in question and the South Florida Water Man-

agement District is concerned about the continued use of the City's eastern wellfield.

Mr. Muniz has assisted the City in design and implementation of a saltwater intrusion program to allow continued use of the eastern wellfield. Efforts included modeling, installation of monitor ground water wells, and development of a monitoring program for data collection and reporting. Permit negotiations with the District is also included in the ongoing efforts to allow continued use of this resource without causing adverse impacts.

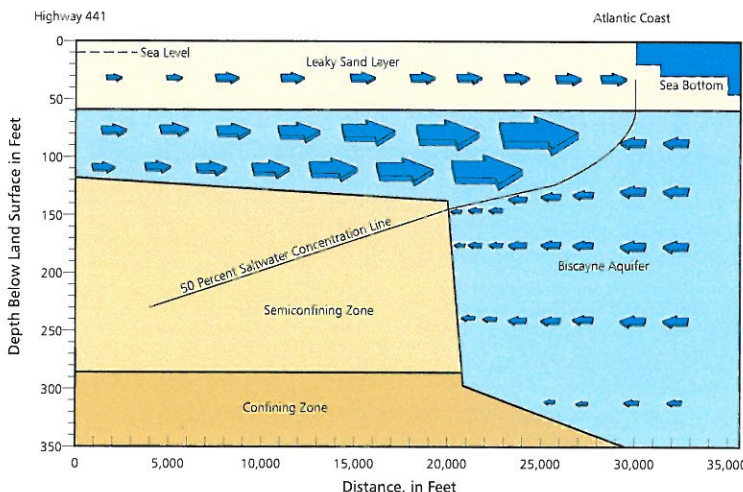
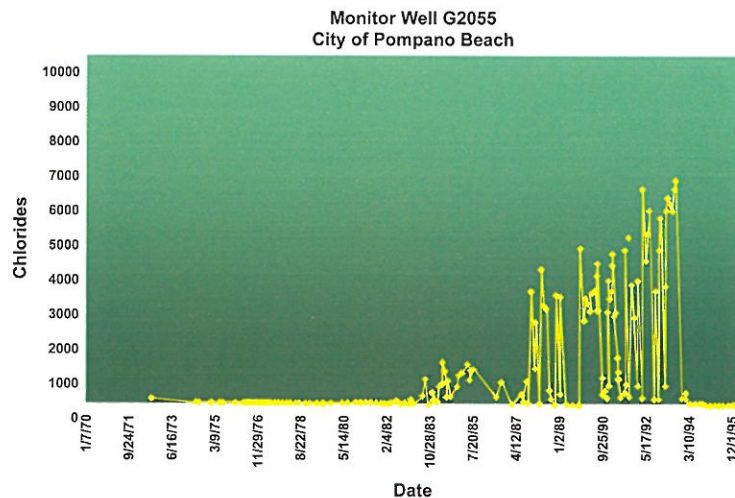
Two hundred foot deep monitoring wells have been installed to allow water quality sampling. These

Reference

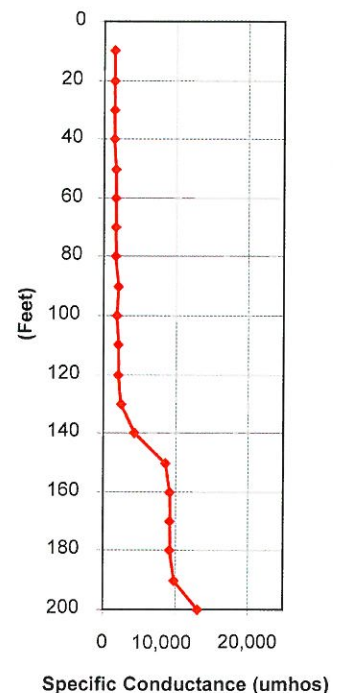
Randy Brown
Director, Utilities
City of Pompano Beach
100 West Atlantic Boulevard
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wells are used to locate the depth and horizontal location of the saltwater interface. Additional monitoring wells completed to specific horizons were also constructed to track movement of the saltwater front. This information was then included in a groundwater modeling that is being used to demonstrate the safe yield of the local aquifer.

Results of these efforts have proven to be very successful and allowed the City to continue the use of their high quality coastal wellfield.



**City of Pompano Beach
Saltwater Intrusion
MW-4 (Sampled 05/07/98)**



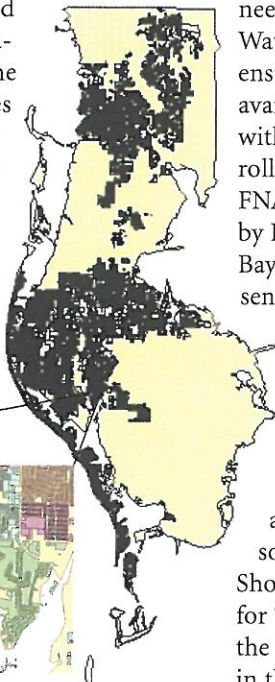
Water Supply Planning and Analysis

TAMPA BAY REGION

Tampa Bay Water is Florida's largest water supply wholesaler, providing water to six member utilities which in turn supply potable water to over two million residents. The mission of Tampa Bay Water is to reliably provide its member utilities with high quality water, meeting present and future needs in an environmentally and economically sound manner. To help meet these needs, Hazen and Sawyer has provided a variety of planning and forecasting services to Tampa Bay Water since 2001 and has regular interactions with senior Tampa Bay Water staff as well as the Board of Directors.

Long-term Demand Forecasting System

To develop a better understanding of increases in demand and its implications on water supply development options, Tampa Bay Water commissioned the development of the long-term demand forecasting system based on metered data from over 550,000 water use accounts in the region, which are collected and stored in a unique GIS database monthly. The model also includes an estimate of potable water savings due to reclaimed water use in the region. A demand forecast update is prepared for an annual report and presentation



to the Tampa Bay Water Board of Directors.

Enhanced Surface Water System (ESWS) Model and Analysis

Hazen and Sawyer developed an ESWS model to process historical and simulated/forecasted surface water flows in order to determine daily permitted withdrawals from source streams. The model simulated surface water production to determine actual withdrawals necessary to maximize daily production, annual storage, and yield from Tampa Bay Water's regional reservoir and surface water system. The model also tracked conservative water quality parameters for compliance with Tampa Bay Water's delivered water quality requirements to its member utilities.

Future Need Analysis

Hazen and Sawyer has developed a system for forecasting Tampa Bay Water's future drinking water supply needs given growth in the region over the next 25 years. This need is tracked against Tampa Bay Water's groundwater use permit to ensure that adequate supply will be available to maintain groundwater withdrawals below the 12 month rolling average of 90 MGD. This FNA analysis is regularly updated by Hazen and Sawyer and Tampa Bay Water staff, and has been presented to the Tampa Bay Water Board of Directors.

Water Shortage Mitigation Plan

Hazen and Sawyer developed a preliminary supply reliability analysis of the surface water sources and developed a Water Shortage Mitigation Plan (WSMP) for Tampa Bay Water to mitigate the impacts of drought on supply in the region. The WSMP includes

Reference

Mr. Dave Bracciano
Demand Management Coordinator
2575 Enterprise Road
Clearwater, Florida 33763-1102
(727) 791-2313
bracciano@tampabaywater.org

rainfall-based and reservoir-based triggers, demand management actions, and supply augmentation recommendations.

Operations Business Plan Development

Hazen and Sawyer assembled and reviewed all pertinent operations, regulatory, and infrastructure information in order to understand the complex operational requirements of the department. This was followed by onsite review of operational duties (operator shadowing) and corresponding facilities in conjunction with staff interviews. The review and analysis led to the development of a consolidated and updated Operations Business Plan submitted to Tampa Bay Water in 2006.

Water Savings Calculator

Hazen and Sawyer developed water conservation Best Management Practices (BMPs) and the Water Savings Calculator for Tampa Bay Water's member utilities. The Water Savings Calculator was designed and developed to assist Tampa Bay Water and its member governments in developing annual water conservation implementation plans which are presented to the Tampa Bay Water Board of Directors each year.

Town of Jupiter Surface Water Recharge System Pilot Study

JUPITER, FLORIDA

Beginning in 1990, the Town of Jupiter (Town) has constructed a system of control structures, flowways and salinity barriers intended to increase surface water storage and surficial aquifer recharge utilizing freshwater that would otherwise be wasted to tide. In general, surplus runoff is captured and channeled into existing surface water storage areas in an effort to recharge groundwater supplies and maintain these systems at their designed control elevation even during the dry season and periods of drought. The recharge system, when fully developed, is expected to offset the effects of urban groundwater withdrawals by continually replenishing the resource. The long-term sustainability of the region's water resources and fresh water environment will be greatly enhanced through the construction and operation of this system. As the Town's Water and Stormwater Consultant since the mid 1990's, Hazen and Sawyer has been integrally involved in the planning, design, permitting, construction and monitoring of this system.

Freshwater supplies within the Loxahatchee River basin are very limited and subject to the risk of saltwater intrusion and periodic drawdown impacts to wetland areas. The recharge system provides the

following essential benefits to the region and river system:

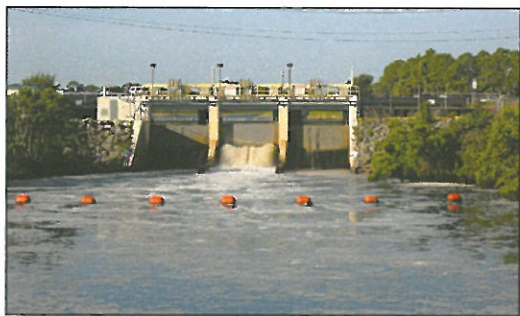
- Replenishes limited freshwater supplies
- Minimizes the risk of saltwater intrusion into the surficial aquifer
- Provides added freshwater storage for river system
- Reduces risk of wetland impacts resulting from prolonged drought and ground water withdrawals
- Protects natural systems and wildlife habitat
- Augments supplies for existing reuse or irrigation quality water supply systems

Currently, interlocal agreements for the operation of this recharge system are in place amongst all effected agencies which include the Town of Jupiter, Loxahatchee River District, South Indian River Water Control District, Northern Palm Beach County Improvement District, North Palm Beach Heights Water Control District and numerous homeowners associations.

Reference

Town of Jupiter
Mr. David L. Brown
Director of Utilities
210 Military Trail
Jupiter, Florida 33458
Phone: (561) 746-5134
Fax: (561) 747-5634
davidb@jupiter.fl.us

A consumptive use permit (CUP) for withdrawal from the C-18 Canal to the recharge system has been in place since 1989 for a flow rate of approximately 12 cfs. However, permit operational provisions are very stringent, and thus prevent flows during dry periods when the local environment needs them the most. As a result, Hazen and Sawyer, working together with Town staff have collected, compiled and organized data for the purpose of reporting to the South Florida Water Management District (SFWMD) in order to modify withdrawal parameters and potentially the CUP. Based on the data and reporting thereof, SFWMD is considering a pilot project to test the efficacy of such system operational modifications. As part of that project, Hazen and Sawyer would expand the current data collection regimen in order to evaluate the impacts of piloted modifications on key elements of the regional system.



SFWMD S-46 Control Structure on the C-18 Canal in Jupiter discharging surplus stormwater runoff to tidal reaches of the Loxahatchee River

April 16, 2012

Mr. Eric Fraser
General Manager

BEAUMONT BASIN WATERMASTER

c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

Fee Proposal to Provide Professional Services
for the Beaumont Basin Watermaster

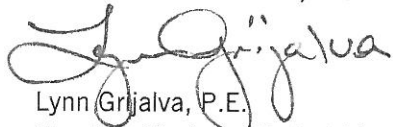
Dear Mr. Fraser:

Hazen and Sawyer is pleased to submit the attached fee proposal to the Beaumont Basin Watermaster to accompany our proposal dated April 16, 2012. Our hourly rate schedule is included for Miscellaneous Services to be authorized by the Watermaster.

We hope to discuss our proposal with you and the Watermaster Committee in the coming days. Please contact me with questions at (213) 505-6723 or lgrijalva@hazenandsawyer.com at any time.

Respectfully submitted,

HAZEN AND SAWYER, P.C.



Lynn Grijalva, P.E.
Vice President and Project Manager

Enclosure

Beaumont Basin Watermaster Engineering Services - Fee Estimate

4/16/2012 Hazen and Sawyer 1150 So. Olive St., Suite 475, Los Angeles, CA 90015

| Team member, Classification, Hourly Billing Rates and Hours of Effort | | | | | | | | | | | |
|---|--------------------------------|-------------------------------|----------------------------|-------------------------------|------------------------------|------------------------------|--------------------------------|-------------------------------|----------|--------|--|
| Task | Description | Grijalva Vice President | Muniz Vice President | Anderson Vice President | Yoo Assistant Engineer | Davis Taylor Vice Pres | Clayton Senior Principal | Kiefer Brown Sr. Assoc. | Totals | | |
| | | \$248 | \$248 | \$248 | \$120 | \$248 | \$148 | \$208 | | | |
| 1 | Data compliation | 4 | 12 | 2 | 60 | | | | 78 | Hours | |
| | | \$992 | \$2,976 | \$496 | \$7,200 | \$0 | \$0 | \$0 | \$11,664 | Budget | |
| 2 | Annual report | 12 | 16 | | 8 | 2 | 2 | 2 | 42 | Hours | |
| | | \$2,976 | \$3,968 | \$0 | \$960 | \$496 | \$296 | \$416 | \$9,112 | Budget | |
| 3 | Operating safe yield | 2 | 8 | 2 | | | | | 12 | Hours | |
| | | \$496 | \$1,984 | \$496 | \$0 | \$0 | \$0 | \$0 | \$2,976 | Budget | |
| 4 | Rules and regulation review | 8 | | | 8 | 2 | | | 18 | Hours | |
| | | \$1,984 | \$0 | \$0 | \$960 | \$496 | \$0 | \$0 | \$3,440 | Budget | |
| 5 | Basin condition report | 4 | 4 | | 40 | 2 | 2 | 2 | 54 | Hours | |
| | | \$992 | \$992 | \$0 | \$4,800 | \$496 | \$296 | \$416 | \$7,992 | Budget | |
| 6 | Meetings | 40 | 16 | | | | | | 56 | Hours | |
| | | \$9,920 | \$3,968 | \$0 | \$0 | \$0 | \$0 | \$0 | \$13,888 | Budget | |
| 7 | Miscellaneous special projects | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |
| | Total hours | 70 | 56 | 4 | 116 | 6 | 4 | 4 | 260 | Hours | |
| | Total budget | \$17,360 | \$13,888 | \$992 | \$13,920 | \$1,488 | \$592 | \$832 | \$49,072 | Budget | |

Hourly Billing Rate by Classification
(\$/hr)

| | |
|-----------------------------|-----|
| Vice President | 248 |
| Senior Associate | 208 |
| Associate | 173 |
| Senior Principal Engineer | 148 |
| Principal Engineer/Designer | 128 |
| Assistant Engineer | 120 |
| Scientist | 103 |
| Technician | 97 |
| Designer/Graphics | 93 |
| Office Support | 80 |

Rates are typically adjusted in July of every year.