

## **AGREEMENT FOR PROFESSIONAL SERVICES FOR WATER SYSTEM ANALYSIS**

This Agreement for Professional Services ("Agreement") is made and entered into this 5th day of March, by and between the City of Coalinga, a Municipal Corporation ("City"), and MKN & Associates ("Provider").

### **RECITALS**

- A. Provider represents to City that they are specially trained, experienced, licensed and competent to perform the services which will be required by this Agreement; and
- B. Provider represents to City that they possess the skill, experience, ability, background, certification and knowledge to provide the services described in this Agreement on the terms and conditions described herein.
- C. City desires to retain Provider to render the services as set forth in this Agreement, as Exhibit 1.

NOW THEREFORE, in consideration of the mutual covenants set forth herein for such other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, the parties hereto agree as follows:

1. **Retention of Provider.** Subject to the terms and conditions set forth herein, City retains Provider to perform the services identified in this Agreement, as an independent contractor and Provider hereby accepts this independent contractor appointment.
2. **Scope of Services.** The Provider shall perform professional services, in accordance with all the provisions of this Agreement. The Scope of Work is attached hereto as Exhibit 1. Provider shall correct any and all errors and/or omissions, which arise out of Provider's negligence or intentional misconduct, in the performance of the Services and any documents resulting therefrom even though City has accepted said Services or documents. Provider shall make such corrections upon City's request and at no cost or expense to City.
3. **Time of Performance.** This agreement shall remain in effect until June 1 2020. Contract time of completion for individual projects will be agreed upon before assignment of each project to Provider. Services designated in the scope of work shall be completed on agreed date unless prior written approval for a time extension has been granted by Sean Brewer.
4. **Compensation.** Compensation to be paid to Provider shall be in accordance with the fee schedule, Exhibit 2, subject to the Prevailing Wage Requirements which are available at the office of the Public Works Director. An estimate for cost of services for each project shall be submitted to the Public Works Director before commencement of work. Payment by City under this Agreement shall not be deemed a waiver of defects, even if such defects were known to the City at the time of payment. An increase in the fee schedule will be allowed at the beginning of year three of this agreement and when the Prevailing Wage for services included in this agreement increases by the same amount approved for increase by the Department of Industrial Relations.

5. **Method of Payment.** Provider shall submit monthly billings to City describing the work performed during the preceding month. Provider's bills shall include a brief description of the Services performed and the date the Services were performed the number of hours spent and by whom, and a description of any reimbursable expenditures. City shall pay Provider no later than 60 days after the date of submittal of a complete invoice for completed tasks and approval of the invoice by City staff.

6. **Extra Work.** At any time during the term of this Agreement, City may request that Provider perform Extra Work. As used herein, "Extra Work" means any work which is determined by City to be necessary for the proper completion of the Services, but which the parties did not include in the Scope of Work. Extra work will be performed on an hourly basis under the Provider's most current hourly fee schedule. Provider shall not perform, nor be compensated for Extra Work without written authorization from City.

7. **Termination.** This Agreement may be terminated by the City immediately and without notice for cause or by City without cause upon ten (10) days' written notice of termination to Provider. Upon termination, Provider shall be entitled to compensation for Services performed up to the effective date of termination, unless this Agreement is terminated for cause, in which case, City may withhold compensation due Provider in order to reimburse City for any losses, damages or expenses caused by Provider's default under this Agreement.

8. **Equal Opportunity Employment.** Provider represents that it is an equal opportunity employer and it shall not discriminate against any sub provider, employee or applicant for employment because of race, religion, color, national origin, handicap, ancestry, sex or age. Such non-discrimination shall include, but not be limited to, all activities related to initial employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination. Provider shall also comply with all relevant provisions of City's programs or guidelines currently in effect as identified and provided to Provider by City.

9. **Insurance Requirements.**

a. Provider, at Provider's own cost and expense, shall procure and maintain, for the duration of this Agreement, the following insurance policies.

i. **Workers Compensation Coverage.** As required by the State of California, with Statutory Limits, and Employer's Liability Insurance with a limit of no less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000) per accident for bodily injury or disease.

ii. **General Liability Coverage.** Insurance Services Office (ISO) Form CG 0001, including products and completed operations, with limits of no less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000) per occurrence for bodily injury, personal injury, and property damage. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be TWO MILLION AND NO/100 DOLLARS (\$2,000,000), twice the required occurrence limit.



iii. Automobile Liability Coverage. ISO Form Number CA 0001 covering any auto (Code 1), with a limit no less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000) per accident for bodily injury and property damage.

iv. Professional Liability Coverage. Contractor will maintain Professional Liability coverage with limits no less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000) per occurrence or claim, and TWO MILLION AND NO/100 DOLLARS (\$2,000,000) policy aggregate.

If Provider maintains higher limits than the minimums shown above, the City requires and shall be entitled to coverage for the higher limits maintained by Provider.

Provider's insurance policies shall be "occurrence" policies and not "claims-made" coverage except for Professional Liability Coverage.

Provider may maintain an Umbrella policy in conjunction with the insurance policies referenced above. In such case, Provider shall be deemed to have satisfied the insurance requirements of this contract as long as: (i) the coverage limits of the Umbrella policy and of the underlying liability policy(ies), when combined, satisfy each of the per occurrence and aggregate requirements identified in this subsection a.; and (ii) coverage under the Umbrella policy is as broad as and includes all incidents and events covered by the underlying insurance that it supplements.

Any deductibles or self-insured retentions must be declared to and approved by the City. The City may require Provider to purchase coverage with a lower deductible or retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. Alternatively, the City may require Provider to provide a financial guarantee satisfactory to the City guaranteeing payment of losses and related investigations, claim administration, and defense expenses within the retention.

The policies are to contain, or be endorsed to contain, the following provisions:

i. The City and its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL and automobile liability policies with respect to liability arising out of work or operations performed by or on behalf of Provider including materials, parts, or equipment furnished in connection with such work or operations; products used by Provider; or automobiles owned, leased, hired or borrowed by Provider. General liability coverage can be provided in the form of an endorsement to Provider's insurance at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10 and CG 20 37 if a later edition is used. The coverage shall contain no special limitations on the scope of protection afforded to the City, its officers, officials, employees or volunteers.

ii. For any claims related to this contract, Provider's insurance coverage shall be primary insurance as respects the City and its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the City and/or its officers, officials, employees, or volunteers shall be in excess of Provider's insurance and shall be non-contributory.

iii. Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the City.

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII.

Provider shall furnish the City with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the City before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Provider's obligation to provide them. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Provider hereby grants to City and its officers, officials, employees, and volunteers a waiver of any right to subrogation which any insurer of Provider may acquire against the City and/or its officers, officials, employees, and volunteers by virtue of the payment of any loss under such insurance. Provider agrees to obtain endorsements necessary to effect this waiver of subrogation, but this provision applies regardless of whether or not the City has received a waiver of subrogation endorsement from the insurer.

The City reserves the right to modify the insurance requirements contained in this contract, including, without limitation, coverage limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

10. **Indemnification.** To the fullest extent allowable by law, Provider agrees to indemnify, defend and hold harmless the City and its officials, officers, employees, agents and volunteers from and against all claims, demands, actions, injuries, liabilities, losses, costs or damages, direct or indirect, and any and all attorneys' fees and other expenses which City or its officials, officers, employees, agents or volunteers may sustain or incur as a consequence of or are in any way related to Provider's or its owners, directors, officers, managers, employees, agents and subcontractor's willful or negligent acts or omissions in the performance of the services and Providers responsibilities and obligations to be performed under this agreement or its failure to perform or comply with any of its obligations or responsibilities contained in this agreement; excluding, however, such liability, claims, losses, damages or expenses arising from City's sole or active negligence or willful acts. This duty to indemnify, defend, and hold harmless shall survive the termination of this agreement. If Provider maintains additional coverage or higher limits than those required herein, then City shall be entitled to additional coverage or higher limits maintained by Provider.

11. **Independent Contractor Status.** It is understood and agreed that Provider, in the performance of the Services to be performed pursuant to this Agreement, shall act as and be an independent contractor and shall not act as an agent or employee of City. Provider shall obtain no retirement benefits or other benefits which accrue to City's employees and Provider hereby expressly waives any claim it may have to any such rights. Nothing in this Agreement shall create or be construed as creating a partnership, joint venture or any other relationship between City and Provider.

12. **Provider's Books and Records.**

a. Provider shall maintain any and all ledgers, books of account, invoices, vouchers, canceled checks, and other records or documents evidencing or relating to charges for



services, or expenditures and disbursements charged to City for a minimum period of three (3) years, or for any longer period required by law, from the date of final payment to Provider under this Agreement.

b. Provider shall maintain all documents and records that demonstrate performance under this Agreement for a minimum period of three (3) years, or for any longer period required by law, from the date of termination or completion of this Agreement.

c. Any records or documents required to be maintained pursuant to this Agreement shall be made available for inspection or audit, at any time during regular business hours, upon written request by the City. Copies of such documents shall be provided to the City for inspection at the City offices.

d. Where City has reason to believe that such records or documents may be lost or discarded due to dissolution, disbandment or termination of Provider's business, City may, by written request, require that custody of the records be given to the City and that the records and documents be maintained in the City offices. Access to such records and documents shall be granted to any party authorized by Provider, Provider's representatives, or Provider's successor-in-interest.

13. **Professional Ability of Provider.** City has relied upon Provider's representations regarding its training and professional ability to perform the Services hereunder as a material inducement to enter into this Agreement. Provider shall therefore provide properly skilled personnel to perform all Services under this Agreement. The primary provider of the Services called for by this Agreement shall be MKN & Associates who shall not be replaced without the written consent of the City. All work performed by Provider under this Agreement shall be in accordance with the applicable professional standard of care and shall meet the local professional standard of quality ordinarily to be expected of competent persons in Provider's field of expertise working in Fresno County.

14. **Compliance with Laws.** Provider shall use the proper standard of care in performing the Services and shall comply with all applicable federal, state and local laws, codes, ordinances and regulations in effect at the time the Agreement is executed. In addition, if the request for proposal to provide professional services which are the subject of this Agreement cited any federal or state financial assistance involved in the project for which the Services are provided, the Provider shall perform all services in accordance with all applicable federal and state laws, rates and regulations in effect at the time the agreement is executed.

15. **Licenses.** Provider represents and warrants to City that it has all licenses, permits, qualifications, and insurance which are legally required of Provider to lawfully and competently perform the Services. Provider represents and warrants to City that Provider shall, at its sole cost and expense, keep in effect or obtain at all times during the term of this Agreement, any licenses, permits, and insurance which are legally required of Provider to lawfully and competently perform the Services. Provider shall maintain a City of Coalinga business license.

16. **Assignment and Subcontracting.** The parties recognize that a substantial inducement to City for entering into this Agreement is the reputation, experience and competence of Provider. Assignments of any or all rights, duties or obligations of the Provider under this Agreement will be permitted only with the express written consent of the City, which will not be unreasonably

withheld. Provider shall not subcontract any portion of the Services to be performed under this Agreement without the express written consent of the City, which will not be unreasonably withheld. If City consents to such subcontract, Provider shall be fully responsible to City for all acts or omissions of the subcontractor. Nothing in this Agreement shall: (1) create any contractual relationship between City and sub Provider; (ii) create any obligation on the part of the City to pay or to see to the payment of any monies due to any such subcontractor; (iii) or relieve Provider of any of its obligations and responsibilities under this Agreement.

17. **Attorneys' Fees.** If an action at law or in equity is necessary to enforce or interpret the terms of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees, costs and necessary disbursements in addition to any other reasonable relief to which he may be entitled. With respect to any suit, action or proceeding arising out of or related to this Agreement, or the documentation related hereto, the parties hereby submit to the jurisdiction and venue of the Superior Court for the County of Fresno, State of California for any proceeding arising hereunder.

18. **Sole and Only Agreement.** This Agreement supersedes any and all other agreements, either oral or in writing, between the parties hereto with respect to the matters set forth herein and contains all of the covenants and agreements between the parties regarding said matters. Each party to this Agreement acknowledges that no representations, inducements, promises or agreements, orally or in writing, have been made by any party or anyone acting on behalf of any party which are not embodied in this Agreement and no other agreement, statement or promise shall be valid or binding.

19. **Invalidity.** If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions shall nevertheless continue in full force and effect without being impaired or invalidated in any way.

20. **Amendment.** No change, amendment or modification of this Agreement shall be valid unless the same be in writing and signed by the parties hereto.

21. **Governing Law.** This Agreement shall be construed and governed pursuant to the laws of the State of California. Any action to enforce this Agreement is to be brought in Fresno County, California.

22. **Waiver.** Waiver of a breach or default under this Agreement shall not constitute a continuing waiver of a subsequent breach of the same or any other provision under this Agreement.

23. **Mediation.** The parties agree to make a good faith attempt to resolve any disputes arising out of this Agreement through mediation prior to commencing litigation. The parties shall mutually agree upon the mediator and shall divide the costs of mediation equally. If the parties are unable to agree upon a mediator, the dispute shall be submitted to JAMS/ENDISPUTE ("JAMS") or its successor in interest. JAMS shall provide the parties with the names of five qualified mediators. Each party shall have the option to strike two of the five mediators selected by JAMS and thereafter the mediator remaining shall hear the dispute. If the dispute remains unresolved after mediation, either party may commence litigation.



24. **Authority to Enter Agreement.** Provider has all requisite power and authority to conduct its business and to execute, deliver and perform the Agreement. Each party warrants that the individuals who have signed this Agreement have the legal power, right, and authority to make this Agreement and to bind each respective party.

25. **Notice.** Except as otherwise expressly provided herein, any notice, consent, authorization or other communication to be given hereunder shall be in writing and shall be deemed duly given and received when delivered personally, when transmitted by facsimile or e-mail if receipt is acknowledged by the addressee, one business day after being deposited for next-day delivery with a nationally recognized overnight delivery service, or three business days after being mailed by first class mail, charges and postage prepaid, property addressed to the party to receive such notice at the last address furnished for such purpose by the party to whom notice is directed and addressed as follows:

**CITY:**

City of Coalinga  
155 West Durian  
Coalinga, California 93210

**PROVIDER:**

MKN & Associates  
8405 North Fresno St., Ste. 120  
Fresno, CA 93720

IN WITNESS WHEREOF, the parties have executed this Agreement effective on the day and in the year first set forth above.

CITY OF COALINGA, a Municipal Corporation

By: \_\_\_\_\_  
Marissa Trejo, City Manager

PROVIDER

Michael K. Nunley  
By: \_\_\_\_\_  
Michael Nunley, President/CEO

Digitally signed by Michael K. Nunley  
Date: 2020.02.25 16:49:32 -08'00'

APPROVED AS TO CONTENT:

ATTEST:

\_\_\_\_\_  
Sean Brewer, Assistant City Manager

\_\_\_\_\_  
Shannon Jensen, City Clerk

**Exhibit 1**  
**Scope of Work**



February 25, 2020

Dan Jauregui  
City Engineer  
Tri City Engineering  
4630 W. Jennifer Ave  
Fresno, CA 93722  
(Submitted Electronically)

Subject: **Proposal for City of Coalinga Water System Analysis**

Dear Dan,

**MKN & Associates, Inc.** (MKN) is pleased to provide this proposal to the City of Coalinga (City) for professional engineering services to complete a water system evaluation that will explore several alternatives to allow for the Derrick Reservoir and 10-inch bypass to be taken offline to perform inspection and potential rehabilitation of the facility.

## **Project Understanding**

To perform this analysis, MKN will develop an updated water system hydraulic model (based on the City's existing water system GIS), review existing water production and demands, evaluate the adequacy of and impacts to systemwide storage, and perform a water distribution system hydraulic analysis focused on the primary transmission lines supply water to the City from its various connection points to reservoirs. The objective of this hydraulic analysis is to determine the City's ability to deliver water to its users under different operation scenarios and demand conditions.

## **Scope of Services**

### **Task Group 100 - Project Management, Meetings, QA/QC**

MKN's project manager will oversee the activities of the project team and coordinate with Tri City and City Staff throughout the project.

MKN will conduct two meetings. MKN will prepare and distribute meeting agendas prior to the scheduled meeting and will record and distribute meeting notes to all attendees. The meeting notes will document the discussions and decisions made. Project meetings include:

- Kickoff meeting and operator workshop to ensure the completeness of the water system hydraulic model and scenarios
- Review meeting to discuss preliminary findings

MKN will perform quality control reviews of all deliverables prior to submitting to the City. A qualified technical reviewer who is not involved in the day-to-day effort will perform an independent review of the project to verify project goals are being met and completeness of the project documents.

### **Task Group 200 - Data Collection and Review**

To develop the updated hydraulic model and complete the hydraulic evaluation, MKN will review the following information provided by the City:

- Existing water system GIS mapping
- Daily water production information for the past three years
- Monthly water billing information per customer (with address and/or assessor's parcel number) for the past three years

- Tank level data for all system tanks from SCADA (duration to be determined following review of production data)
- Booster pump station (BPS) pump curves and as-builts
- Storage typical tank level settings (high/low) and as-builts
- Pressure reducing valve (PRV) stations set points and as-builts
- As-built improvements of the water distribution system (as needed) to supplement the water GIS mapping
- Elevation data of existing water system facilities
- Pressure readings throughout the distribution system

### **Task Group 300 - Existing Demand Analysis**

Using the recent water production and water billing information provided by the City and review of the demand analysis completed for the 2005 Water Master Plan, MKN will develop revised existing demand conditions for the evaluation. The existing demand analysis will include the following:

- Develop the following existing water demands conditions:
  - o Average Day Demand (ADD)
  - o Maximum Day Demand (MDD)
  - o Peak Hour (PHD)
- Assign existing demands to the City or Fresno County GIS parcel layer based on address and/or APN to distribute demands throughout the City

Future demand conditions and/or projections will not be developed for this project.

### **Task Group 400 - Storage Evaluation**

To analyze the adequacy of the City's storage facilities to serve existing demands with and without the Derrick Reservoir, three criteria will be reviewed including the following:

- Equalization (or operational) Storage: Is the volume of storage required to meet short-term peak day demands that are in excess of production, ideally without using water maintained for emergency or fire storage.
- Emergency Storage: Is the volume of storage recommended to ensure ongoing supply in the event of a water supply emergency.
- Fire Storage: Is the volume of storage recommended to meet fire-flow requirements for the duration of the event.

MKN will identify the baseline storage capacity conditions (surplus/deficit) with all existing City storage facilities in service. Once baseline conditions are established, MKN will review up to three (3) storage alternatives to supplement storage needs with the Derrick Reservoir offline and present them to the City to determine what service level of storage can be provided.

### **Task Group 500 - Water System Evaluation**

MKN will develop a skeletonized water system hydraulic model of the City's backbone water supply, transmission, and distribution facilities using the City's existing water system GIS mapping shapefiles. MKN will modify the City's existing water GIS shapefiles as necessary to import the data into Bentley WaterCAD Connect Edition Version 10 to develop the model. In addition to the water GIS mapping, MKN will incorporate and configure the model using the water system information (tank levels, PRV settings, pump curves) identified in Task Group 200.



MKN will use existing elevation information provided by the City, as-built plans, or Google Earth. However, more detailed survey information of major water facilities may be needed from the City to complete the model development. MKN will identify the additional survey needs following review of the City's water GIS and existing information.

MKN will calibrate the model using the City's pressure monitoring information that City staff have collected at key locations throughout the system. MKN will coordinate with the City to complete the required pressure monitoring.

Using the updated hydraulic model, MKN will identify baseline pressure, flow, and velocity for the demand conditions identified in Task Group 300 with all existing facilities in service. Once baseline conditions are established, MKN will analyze up to five additional alternatives to supplement system flows and pressures needs with the Derrick Reservoir offline.

MKN will develop and analyze the following steady-state scenarios:

1. *Baseline model that will have all City facilities in service (Derrick, SR198 main, Jayne Ave main, Phelps Ave main all active)*
2. *System served only from Derrick Reservoir existing bypass using supply from Palmer Reservoir with no other supplies (MKN will evaluate the existing Derrick Reservoir bypass' ability to serve existing demand conditions and if there's a benefit to upsizing the bypass.)*
3. *System served only from 16-inch main in SR198 using supply from Palmer Reservoir*
4. *System served from 12- to 16-inch mains in Jayne Avenue and 10-inch main in Phelps Avenue using supply from Calaveras Reservoir*
5. *System served from 16-inch main in SR198, 10-inch main in Phelps, and 12- to 16-inch mains in Jayne Avenue using supply from Palmer and Calaveras*
6. *System served from 16-inch main in SR198 and 10-inch Derrick Reservoir bypass using supply from Palmer Reservoir*

### **Task Group 600 - Prepare Technical Memorandum Summarizing Results**

MKN will prepare a draft and final technical memorandum summarizing the results of the data collection and review, existing demand analysis, storage evaluation and recommendations, water system evaluation and recommendations, validation of the proposed Derrick Reservoir bypass facilities, and recommended operating scenario(s).

MKN will conduct a review meeting with the City to discuss the TM and our findings and submit the draft TM for City review and comments. Comments provided will be incorporated into the final technical memorandum to the City.

### **Assumptions**

MKN's proposed scope of services is based on the following assumptions:

- City will provide existing water GIS mapping for model development and other data listed in Task Group 200
- City GIS data will include pipe size and material information
- City staff will be able to complete pressure monitoring and fire flow testing (if needed) to support hydraulic model calibration
- Tri City Engineering will be able to provide additional survey data (if needed) to develop the model
- Future demands, projections, and system analysis of future scenarios will not be required for this project and is not included in this scope of services
- System-wide fire flow analysis will not be required for this project, but could be provided as a future effort

## Schedule

The hydraulic modeling and draft technical memorandum will be completed within 3 weeks from the Kickoff Meeting. The final technical memorandum will be completed within 2 weeks of receiving comments from the City on the draft technical memorandum.

## Budget

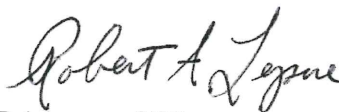
MKN proposes to complete this work on a time and materials basis in accordance with the attached 2020 Fee Schedule, with a not-to-exceed budget of \$23,271.

Thank you for providing MKN & Associates with the opportunity to provide professional services for your project. If you have any questions regarding this proposal, please contact me at [hliang@mknassociates.us](mailto:hliang@mknassociates.us) or by phone at (559) 500-4750.

Sincerely,

A handwritten signature in blue ink, appearing to read "Henry Liang".

Henry Liang, PE  
Principal/Operations Manager

A handwritten signature in black ink, appearing to read "Robert A. Lepore".

Rob Lepore, GISP  
Water Resource Planner

Attachments:  
MKN 2020 Fee Schedule





## FEE SCHEDULE FOR PROFESSIONAL SERVICES

### ENGINEERS AND TECHNICAL SUPPORT STAFF

Project Director/ Operations Manager	\$206/HR
Principal Engineer	\$191/HR
Senior Project Engineer	\$180/HR
Project Engineer/ Senior Scientist	\$159/HR
Water Resources Planner	\$145/HR
GIS Specialist	\$139/HR
Assistant Engineer II	\$136/HR
Assistant Engineer I	\$115/HR
GIS Technician	\$115/HR
Supervising Drafter	\$138/HR
Drafting/Design Technician II	\$128/HR
Drafting/Design Technician I	\$105/HR
Administrative Assistant	\$65/HR
Engineering Intern	\$60/HR

*Routine office expenses such as computer usage, software licenses and fees, telephone charges, office equipment and supplies, incidental postage, copying, and faxes are included as a 3% fee on labor cost.*

### DIRECT PROJECT EXPENSES

Outside Reproduction	Cost + 10%
Subcontracted or Subconsultant Services	Cost + 10%
Travel & Subsistence (other than mileage)	Cost
Auto Mileage	Current IRS Rate - \$.58/mi.

**Exhibit 2**  
**Fee Schedule**

# Proposal for City of Coalinga Water System Analysis

	Project Manager	Senior Engineer	Water Resource Planner	Assistant Engineer	Total Hours	ODCs	Total Labor	Total Cost
<b>Task Group 100: Project Management, Meetings, QA/QC</b>								
Kickoff meeting/operator workshop	4	0	4	0	8	\$ 242	\$ 1,404	\$ 1,646
Review meeting	4	0	4	0	8	\$ 242	\$ 1,404	\$ 1,646
Quality control	0	2	0	0	2	\$ 11	\$ 360	\$ 371
Subtotal	8	2	8	0	18	\$ 495	\$ 3,168	\$ 3,663
<b>Task Group 200: Data Collection and Review</b>								
Review and document existing water system information	0	0	2	6	8	\$ 29	\$ 980	\$ 1,009
Subtotal	0	0	2	6	8	\$ 29	\$ 980	\$ 1,009
<b>Task Group 300: Existing Demand Analysis</b>								
Demand analysis	2	0	2	8	12	\$ 49	\$ 1,622	\$ 1,671
Subtotal	2	0	2	8	12	\$ 49	\$ 1,622	\$ 1,671
<b>Task Group 400: Storage Evaluation</b>								
Complete baseline storage evaluation	2	0	2	4	8	\$ 35	\$ 1,162	\$ 1,197
Complete alternatives storage evaluation (total of 3)	2	0	2	6	10	\$ 42	\$ 1,392	\$ 1,434
Subtotal	4	0	4	10	18	\$ 77	\$ 2,554	\$ 2,631
<b>Task Group 500: Water System Evaluation</b>								
Develop Hydraulic Model using City GIS and data/records provided by City	0	0	6	24	30	\$ 109	\$ 3,630	\$ 3,739
Configure and calibrate model	0	0	4	6	10	\$ 38	\$ 1,270	\$ 1,308
Evaluate baseline conditions	0	0	2	4	6	\$ 23	\$ 750	\$ 774
Evaluate alternatives (total of 4)	4	0	4	24	32	\$ 125	\$ 4,164	\$ 4,289
Subtotal	4	0	16	58	78	\$ 294	\$ 9,814	\$ 10,109
<b>Task Group 600: Technical Memorandum</b>								
Draft technical memorandum	4	0	6	8	18	\$ 78	\$ 2,614	\$ 2,692
Final technical memorandum	2	0	4	4	10	\$ 44	\$ 1,452	\$ 1,496
Subtotal	6	0	10	12	28	\$ 122	\$ 4,066	\$ 4,188
TOTAL BUDGET	24	2	42	94	162	\$ 1,066	\$ 22,204	\$ 23,271

Billing Rates	\$/hr
Project Manager	206
Senior Engineer	180
Water Resource Planner	145
Assistant Engineer	115

