



ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

October 8, 2004  
Project No. 2005-3355

Monterey Peninsula Water Management District  
Post Office Box 85  
Monterey, California 93942

Attention: Mr. Joe Oliver

Subject: Proposal for Hydrogeologic and Engineering Services, Aquifer Storage and Recovery Project

Dear Joe:

In accordance with your request, Padre is pleased to present this scope of work for additional hydrogeologic and engineering services associated with the Monterey Peninsula Water Management District's (District) Aquifer Storage and Recovery (ASR) Project. We understand that the District intends to prepare an Environmental Impact Report (EIR) for a small scale ASR project with an anticipated yield of approximately 1,300 to 1,800 acre feet per year (AFY). The EIR is being developed in part to support the District's application to State Water Resources Control Board (SWRCB) for long-term water rights for diversion from the Carmel River System for conveyance to ASR well facilities in the Seaside Groundwater Basin. The District therefore desires to amend Padre's existing contract to provide technical assistance in support of District staff and its CEQA consultant (Jones & Stokes Associates) in preparation of the EIR.

### Scope of Services

Based on our understanding of the District's needs and our experience with this and similar projects, we have prepared a scope of services to assist the District with the preparation of an EIR for the subject project.

**Task 1 - Assist with Project Description.** Padre will provide technical engineering and hydrogeologic assistance to District staff in the preparation of a Project Description for a small scale ASR project (i.e., 1,300 to 1,800 AFY). We understand that District staff will be the 'lead' in preparing the actual Project Description documents, with Padre providing technical support on the engineering and hydrogeologic aspects. We envision that Padre will provide technical assistance regarding the following elements of the Project Description:

- Diversion facilities in the Carmel River System (e.g., wells and/or Carmel Valley Filter Plant).

- Conveyance infrastructure (e.g., pipelines, pump stations, etc.) necessary to convey diverted flows from the Carmel Valley to ASR facilities in the Seaside Basin and recovery flows from the ASR wells into the Cal-Am system.
- ASR well facilities in the Seaside Basin necessary for the injection and recovery of the desired project yields.

**Task 2 - Prepare Hydrologic Impacts Assessment.** Padre will prepare an analysis of hydrologic impacts (water level and quality) of ASR operations in the Seaside Basin for the EIR. Based on our discussions, we understand the District envisions that the EIR will entail both quantitative project-level elements, as well as more qualitative program-level review elements.

Project-level elements include adding a second well at the existing Santa Margarita Test Injection Well (SMTIW) site, along with ancillary facilities needed to conduct full-scale testing of well couplet interactions and/or full-time operations. Program-level elements would involve potential additional well sites (up to four wells at two additional sites in the Fort Ord area) to maximize use of the permitted water rights.

**Task 3 - Support for Administrative Draft EIR.** Padre will provide technical support for the Administrative Draft EIR, including:

- Review of Administrative Draft EIR, and
- Address District comments on engineering aspects and hydrologic impacts assessment.

**Task 4 - Support during Draft EIR.** Padre will provide technical support during the preparation of the Draft EIR, including;

- Review of Draft EIR, and
- Respond to comments and provide additional information, as needed.

**Task 5 - Project Management and Meetings.** This task includes overall day-to-day project management, budget and billing control, and scheduling control. We also envision a total of two project meetings during implementation of the work. These meetings are envisioned as follows:

- Project Kickoff Meeting
- Interim draft of Project Description Workshop

Meetings are envisioned to be attended by two Padre team staff and last for 4 hours per meeting. It is assumed that additional meetings would be via conference call.

### **Services Not Included / Assumptions**

Completion of the project will require the performance of certain tasks/analyses that are not included in Padre's scope of services. Our scope and budget estimate includes the following assumptions:

- District will provide any required CVSIM model runs and evaluations.
- District will assess impacts to the Carmel River System.
- District or its other consultants (i.e., JSA) will be responsible for generation, reproduction, distribution, etc., of actual CEQA documents. Padre will provide text and supporting graphics for technical elements described in the above scope of services for incorporation by the District/JSA. Text will be provided in MSWord 6.0 format. Graphics will be either AutoCad 2002 or PDF formats, as applicable.
- No additional engineering analysis for project alternatives.
- Site surveys/topographic base mapping.
- Any others items not specifically included in Padre's scope of services

### **Project Personnel**

Padre staff assigned to this project will include Mr. Steve Tanner, P.E., Mr. Robert Marks, R.G., and Mr. Mike Burke, R.G., C.Hg. These individuals have been assisting the District and authored the majority of relevant studies of ASR on the Monterey Peninsula since 1995 (both while at Padre and under previous employment), and have extensive experience with numerous other ASR projects throughout California. Any substitutions will be approved by the District in advance.

### **Schedule**

Based on information provide by the District, the general schedule anticipated for the project is presented below:

- Draft Project Description - November 19, 2004
- Final Project Description – December 6, 2004
- Administrative Draft EIR - March 28, 2005
- Draft EIR - April 25, 2005
- Final EIR - July 19, 2005.

Based on our current workload, we believe that we can commence work within 14 days of your authorization. We understand that in order to authorize this work, a formal contract amendment must first be approved by your Board, and signed with the District.

### Estimated Fees

Based on the scope of services presented herein, we estimate the fees for our services will be approximately \$29,410, which will be billed on a time-plus-expenses basis in accordance with our current Fee Schedule (attached). A summary of costs by task is also attached. Because the project description has not been finalized and the actual work needed to confirm required facilities cannot be known with certainty at this time, a \$10,000 percent contingency has been noted in the attached budget summary (total w/contingency is \$39,410) in the event that unforeseen project complications or constraints arise. We recommend the contingency be held by the District, to be authorized for release by District staff upon appropriate justification and written notice by Padre.

We appreciate the opportunity to work with the District on this important project, and look forward to a timely and successful completion of the work. As always, if you have any questions or would like to modify the scope of services, please call us.

Sincerely,

PADRE ASSOCIATES, INC.



Robert C. Marks, R.G.  
Project Hydrogeologist

RCM:av

Attachments: Cost Summary  
Fee Schedule

**COST SUMMARY  
AQUIFER STORAGE AND RECOVERY PROJECT EIR**

Task 1 - Assist with Project Description	\$ 7,920
Task 2 - Prepare Hydrologic Impacts Assessment	\$ 11,740
Task 3 - Administrative Draft EIR Support	\$ 1,200
Task 4 - Draft EIR Support	\$ 3,660
Task 5 - Project Management and Meetings	\$ 4,890
<b>Subtotal:</b>	<b>\$ 29,410</b>
Recommended Budget Contingency*:	\$ 10,000
<b>Total w/Contingency:</b>	<b>\$ 39,410</b>

\* We recommend this contingency be held by District staff/management to be utilized in the event that additional services are required or unforeseen project constraints or requirements arise.

## 2003 WATER RESOURCES FEE SCHEDULE

### Professional Services

Senior Principal Professional.....	\$	150/hr
Principal Professional .....	\$	140/hr
Senior Professional.....	\$	115/hr
Project Professional.....	\$	100/hr
Staff Professional.....	\$	85/hr
Senior Technician .....	\$	75/hr
Technician.....	\$	65/hr
Drafting.....	\$	50/hr
Word Processing .....	\$	45/hr

### Other Direct Charges

Subcontracted Services.....	Cost Plus 15%
Outside Reproduction.....	Cost Plus 15%
Travel, Subsistence, and Expenses.....	Cost Plus 15%
Vehicle .....	\$ 75/day
Automobile Mileage (beyond 50 miles from Padre offices) .....	\$ 0.36/mile