

**AMENDMENT TO AGREEMENT BETWEEN THE SEASIDE BASIN WATERMASTER
AND MONTEREY PENINSULA WATER MANAGEMENT DISTRICT FOR
PROFESSIONAL SERVICES**

WHEREAS the SEASIDE BASIN WATERMASTER (hereinafter Watermaster) and MONTEREY PENINSULA WATER MANAGEMENT DISTRICT (hereinafter Consultant) entered into that certain Agreement Between the Seaside Basin Watermaster and MONTEREY PENINSULA WATER MANAGEMENT DISTRICT for Professional Services on April 18, 2007, (hereinafter Agreement);

WHEREAS Section IX titled CHANGES AND CHANGED CONDITIONS provides that any changes to the Agreement shall be documented by duly executed amendments to the Agreement; and

WHEREAS Watermaster and Consultant wish to amend the Agreement.

NOW THEREFORE, the Agreement is hereby amended as follows:

A. This Amendment applies only to work performed by Consultant under the Agreement after July 31, 2007. Work performed by Consultant under the Agreement prior to that date is not affected by this Amendment.

B. By deleting in its entirety Exhibit A, Scope of Services, and by substituting therefor the attached new Amended Exhibit A, Scope of Services.


C. By deleting in its entirety Exhibit B, Fee Schedule, and by substituting therefor the attached new Amended Exhibit B, Fee Schedule.

D. By deleting in its entirety Exhibit C, Work Schedule, and by substituting therefor the attached new Amended Exhibit C, Work Schedule.

In all respects other than as hereinabove expressly set forth the undersigned hereby ratifies the Agreement Between the Seaside Basin Watermaster and Monterey Peninsula Water Management District for Professional Services executed on April 18, 2007, as amended on this the 17 day of October, 2007.

SEASIDE BASIN WATERMASTER

By:


DEWEY EVANS
Watermaster Executive Officer

CONSULTANT

By:


MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

AMENDED EXHIBIT A

April 11, 2007

For Use by the Seaside Basin Watermaster

**This document contains the MPWMD Scope of Work for Phase 1,
as adapted from**

IMPLEMENTATION PLAN

**SEASIDE BASIN MONITORING AND MANAGEMENT
PROGRAM**

March 7, 2007

**Presented to:
Seaside Basin Watermaster Board**

Appendix A

Seaside Groundwater Basin Management and Monitoring Program

Phase 1

Scope of Work, Schedule and Budget

MANAGEMENT

M.1

Program Administration

M. 1. a.

Program Management Plan

MPWMD will assist with the preparation of a Project Management Plan for Phase 2 work to establish project goals and objectives, project description, scope of work, work breakdown structures, project organization, roles and responsibilities, contract and construction budgets, communications plan, quality plan, document control and data transfer plan, project controls, and billing procedures.

M. 1. b.

Project Budget and Controls

MPWMD will conduct monthly invoicing, maintenance of internal budgets and schedules.

M. 1. c.

Assist with Board and TAC Agendas

No work shall be performed under this Task.

M. 1. d.

Preparation and Attendance of Meetings

The Project will require numerous meetings both internally and with outside governmental agencies and with the public. Appropriate members of the MPWMD will attend the necessary meetings and prepare agendas and meeting minutes to facilitate the meetings. Planning and review meetings are assumed with the Watermaster's technical staff and consultants for a budgeted period of 12 months. High-level meetings to present updates to the Watermaster Board are budgeted for 12 months. At key milestones, additional meetings will be held that are focused on technical issues and key findings.

M. 1. e.

Prepare Board/ TAC Status Updates and Reports

MPWMD will provide Watermaster with monthly status reports indicating progress on the Tasks upon which MPWMD is working. This will be done as part of the work of Task M.1.d, and not charged against this Task.

M. 1. f.

Peer Review of Documents and Reports

MPWMD will assist TAC and Watermaster with peer reviews of documents and reports prepared by various Watermaster entities, as requested.

M. 1. g.

QA/QC

No work shall be performed under this Task.

Deliverables

- Project Management Plan
- Monthly Status Reports
- Technical Data as required for Meetings

IMPLEMENTATION

I. 1. Monitor Well Construction

I. 1. a. Coordination with Monitor Well Implementation Program

MPWMD, in consultation with the RBF team, will provide guidance and assistance to Martin Feeney on development of Monitoring Well Construction Program.

I. 2. Comprehensive Basin Production, Water Level and Water Quality Monitoring Program

Consolidated Seaside Basin Groundwater Resources Database

Groundwater resource monitoring within the Seaside Basin is currently being conducted by numerous entities. The programs consist of:

- Groundwater Production Monitoring;
- Groundwater Level Monitoring;
- Groundwater Quality Monitoring;
- Surface Water Monitoring; and
- Precipitation Monitoring;

For successful implementation of the Seaside Basin Monitoring Program, pertinent historical basic groundwater resource data obtained from the above-mentioned programs needs to be consolidated into a database to allow more efficient organization and data retrieval. The consolidated database will allow for simple identification of differences and discrepancies of datasets compiled by the numerous entities. Data gaps will become evident as well. In addition, the consolidated database needs to allow pertinent groundwater data to be efficiently organized, managed and housed in a single location to facilitate:

- Ongoing data collection;
- Data storage and retrieval;
- Distribution of basic data to Watermaster members and interested parties; and,
- Preparation of annual and periodic reports to the Watermaster.

Characteristics of both existing wells and wells proposed as part of the Seaside Basin Monitoring Program will be notated in the database, including type, location, construction details and other pertinent information. MPWMD already maintains a groundwater database that contains some of the features described above. The consulting team will determine if the MPWMD database should be expanded or if a new database should be created. Assist the Watermaster in the review of the existing MPWMD groundwater database to help determine whether it is feasible and economical to incorporate both the historical data and the ongoing data to be collected as part of the Seaside Basin Monitoring Program.

Coordination with the Watermaster is required in order to verify the adequacy of the existing database and ensure data requirements are met. Completion of the enhancement or development of a consolidated database will allow the review of the available groundwater resource data to determine discrepancies, differences, or data gaps.

Monitoring of Production Wells

As defined in Section D-5, Monitoring of Production Wells, of the RFP, the data to be collected by each owner and/or operator of inactive and active wells in the Basin shall be forwarded to the Watermaster for inclusion into the consolidated database.

I. 2. a. Basin Management Database Development

I. 2. a. 1. Coordination with Watermaster to Review Database

MPWMD will jointly meet with the RBF team on review of existing databases and initial development of Watermaster Database.

I. 2. a. 2 Develop Scope of Work to Enhance or Develop New Groundwater Resource Database

No work shall be performed under this Task.

I. 2. a. 3. Create Basin Management Database

Under general direction and guidance from the MPWMD to the RBF team, the Watermaster database will be formatted and generated to complement the features of the MPWMD's existing water resources database.

I. 2. a. 4. Populate Database with Data From All Sources

No work shall be performed under this Task.

I. 2. a. 5. Conduct ongoing data entry/ database maintenance

Under general direction and guidance from the MPWMD to the RBF team, all newly-acquired data will be added to the Watermaster database as it becomes available, and any appropriate database structure modifications will be made as needed.

I. 2. b. Data Exchange and Collection

Incorporate ongoing groundwater monitoring data into the consolidated groundwater resource database. This will include the following subtasks:

I. 2. b. 1. Establish Agreements and Schedule

MPWMD and RBF teams will closely coordinate to establish agreements and schedules for ensuring that all materials for Watermaster database development and ongoing maintenance are provided in an organized and timely manner for use by the Watermaster.

I. 2. b. 2. Establish Data Types, Formats

MPWMD and RBF teams will closely coordinate to establish mutually acceptable data types and formats, which will provide the optimal benefit to the Watermaster for its recordkeeping and reporting purposes.

I. 2. c.

MPWMD will work jointly with the RBF team to identify procedures

Develop Data Archiving Procedures for archiving collected field and electronic data.

I. 2. d. Develop Data QA/QC Procedures MPWMD will work jointly with the RBF team to identify procedures for routine Quality Assurance/Quality Control of data collection program.

I. 2. g. Enhanced Monitoring Well Network Evaluation MPWMD will evaluate existing inactive production wells for possible inclusion with the existing and new monitoring well network. This will include the following subtasks:

I. 2. g. 1 Key Laguna Seca Subbasin Locations Existing and potential new monitor well locations at identified key locations within and near the Laguna Seca Sub area of the basin will be evaluated by MPWMD, report and file research, contacts with existing Watermaster member entities and consultants, and field inspections.

I. 2. g. 2 Key Southern Coastal Subbasin Locations Existing and potential new monitor well locations at identified key locations within and near the Southern Coastal Sub area of the basin will be evaluated by MPWMD, report and file research, contacts with existing Watermaster member entities and consultants, and field inspections.

I. 2. g. 3 Summary Technical Memorandum with Recommendations Upon completion of the research and evaluation efforts, a summary technical memorandum with recommendations will be prepared and distributed for review and input by all Watermaster member entities.

I. 2. h. Laguna Seca Water Quality Investigation As an additional component to the enhanced monitor well network evaluation, all available historical groundwater quality data sources in and near the Laguna Seca Sub area will be located by MPWMD, in order to evaluate and provide recommendations on enhancement of water quality monitoring that will facilitate future updated groundwater resources assessment of the Laguna Seca Sub area.

I. 3 Basin Management

I. 3. a. Supplemental Water Supplies MPWMD will provide input and technical assistance for the RBF team to conduct a brief review of supplemental water supplies as warranted throughout the initial phase of the program. The effort devoted to this task is anticipated to increase once the consolidated database is developed and existing data are analyzed.

WATER QUALITY SAMPLING SERVICES

MPWMD will collect quarterly water samples at the existing MPWMD monitoring wells, and at the new coastal sentinel monitoring wells being constructed under Task I.1, and will analyze these samples for the following constituents: Specific conductance, Total Alkalinity, pH, Chloride, Sulfate, Ammonia Nitrogen, Nitrate Nitrogen, Total Organic Carbon, Calcium, Sodium, Magnesium, Potassium, Iron, Manganese, Orthophosphate, and Boron.

MPWMD will also measure and record the water level at each of these wells at the time of each sampling event.

MPWMD will prepare and submit to the Watermaster within 60 days

after the completion of each sampling event a report containing the sampling and water level monitoring data, along with an evaluation of the monitoring results. The format and content of this report shall be similar to the report prepared by MPWMD for the Watermaster dated February 2, 2007, titled "Seaside Basin Watermaster Memorandum 2007-01."

SERVICES NOT INCLUDED

In addition to the above, other services may be required to carry out the Phase 1 portion of the SBMMP. The MPWMD services do not include administration, management or technical services that are outside the scope and tasks described herein.

AMENDED EXHIBIT B

Seaside Basin Monitoring and Management Program

PHASE 1 BUDGET SUMMARY

Item	MPWMD
Labor Costs	
M.1 Program Administration	\$12,870
I.1 Monitor Well Construction	\$3,168
I.2 Production, Water Level and Quality Monitoring	\$22,864
I.3 Basin Management	\$3,280
I.4 Seawater Intrusion Contingency Plan	
<i>Subtotal</i>	\$42,182
Direct Costs MPWMD	
Database Server (MPWMD)	\$4,200
Data Archiving Hardware (MPWMD)	\$3,600
Water Quality Sampling Services (MPWMD)	\$14,110
<i>Subtotal</i>	\$21,910
TOTAL	\$64,092

**Seaside Basin Monitoring and Management Program
Scope and Labor Budget
Task Description**

		MPWMD		
Task No.		Hours	Rate	Subtotal
M. 1	Program Administration			
M. 1. a.	Program Management Plan	16	\$ 99	\$ 1,584
M. 1. b.	Project Budgets and Controls	16	\$ 99	\$ 1,584
M. 1. c.	Assist with Board and TAC Agendas	5	\$ 99	\$ 495
M. 1. d.	Preparation and Attendance of Meetings	60	\$ 99	\$ 5,940
M. 1. e.	Prepare Board/ TAC Status Updates and Reports	9	\$ 99	\$ 891
M. 1. f.	Peer Review of Documents and Reports	24	\$ 99	\$ 2,376
M. 1. g.	QA/QC		\$ 99	\$ -
	<i>Subtotal Program Administration</i>			\$ 12,870
I. 1.	Monitor Well Construction			
I. 1. a.	Coordination with Monitor Well Implementation Program	32	\$ 99	\$ 3,168
	<i>Subtotal Monitor Well Construction Program</i>			\$ 3,168
I. 2.	Production, Water Level and Quality Monitoring			
I. 2. a.	Basin Management Database Development			
I. 2. a. 1.	Coordination with Watermaster to Review Database	16	\$ 99	\$ 1,584
I. 2. a. 1. 1	Review of MPWMD Database to Catalog Historical Data			\$ -
I. 2. a. 1. 2	Collection			\$ -
I. 2. a. 2.	Develop Scope to Enhance or Develop New Database			\$ -
	Database Server Purchase			
	Database Archiving Software Purchase			
I. 2. a. 3.	Create Basin Management Database	40	\$ 67	\$ 2,680
I. 2. a. 4.	Populate Database with Data from all sources			\$ -
I. 2. a. 5.	Conduct ongoing data entry/ database maintenance	32	\$ 69	\$ 2,208
I. 2. b.	Data Exchange and Collection			
I. 2. b. 1.	Establish Agreements and Schedule	12	\$ 94	\$ 1,128
I. 2. b. 2.	Establish Data Types, Formats	60	\$ 94	\$ 5,640
I. 2. c.	Develop Data Archiving Procedures	60	\$ 94	\$ 5,640
I. 2. d.	Develop Data QA/QC Procedures	24	\$ 67	\$ 1,608
I. 2. e.	Enhanced Monitor Network Evaluation	24	\$ 99	\$ 2,376
I. 2. e. 1.	Key Laguna Seca Subbasin Locations*			\$ -
I. 2. e. 2.	Key S-Coastal Subbasin Locations*			\$ -
I. 2. e. 3.	Summary Technical Memorandum with Recommendations*			\$ -
I. 2. f.	Laguna Seca Water Quality Investigation*			\$ -
	<i>Subtotal Production, Water Level and Water Quality Monitor Program</i>			\$ 22,864
I. 3	Basin Management			
I. 3. a.	Supplemental Water Supplies	40	\$ 82	\$ 3,280
	<i>Subtotal Basin Management Program</i>			\$ 3,280
	Total			\$ 42,182

Notes: * Indicates costs for this subtask are included in the costs shown for Task I.2.e

Phase 1 SBMMP					
MPWMD					
Water Quality Sampling Services					
Labor					
Task	Hours	Rate	Frequency		Cost
Collect quarterly water samples (existing MPWMD wells)	24	69	3		\$4,968.00
Collect one-time water samples (new WM sentinel wells)	24	69	1		\$1,656.00
Data Preparation and Reporting	8	84	3		\$2,016.00
			Subtotal		\$8,640.00
Outside Direct Costs					
Description	No. of wells	Time Unit	No. of Time Units	Unit Price	Cost
WQ Lab analyses (existing MPWMD wells)	6	quarterly	3	\$180	\$3,240.00
WQ Lab analyses (new WM sentinel wells)	4	once	1	\$180	\$720.00
WQ monitoring equipment rental (existing MPWMD wells)		1 day/event	3	\$300	\$900.00
WQ monitoring equipment rental (new WM sentinel wells)		1 day/event	1	\$300	\$300.00
			Subtotal		\$5,160.00
			Administrative cost (6%)		\$309.60
			Total Cost Estimate		\$14,109.60