

**SEASIDE GROUNDWATER BASIN WATERMASTER
MEETING AGENDA**

**WEDNESDAY, JANUARY 17, 2007, 3:00 P.M.
SOPER COMMUNITY CENTER, 220 COE AVENUE
SEASIDE, CALIFORNIA**

WATERMASTER BOARD:

City of Seaside – Mayor Ralph Rubio, Chairman

Laguna Seca Subarea Landowner – Director Bob Costa, Vice Chairman

Monterey Peninsula Water Management District – Director Michelle Knight, Secretary

City of Monterey – Vice Mayor Jeff Haferman

City of Sand City – Mayor David Pendergrass

California American Water – Director Steve Leonard

City of Del Rey Oaks – Mayor Joseph Russell

Monterey County/Monterey County Water Resources Agency - Supervisor Jerry Smith, District 4

Coastal Subarea Landowner – Director Paul Bruno

I. CALL TO ORDER

II. ROLL CALL

III. APPROVAL OF MINUTES;

The minutes of the Regular Board of Meeting of December 6, 2006 are attached to this agenda. Watermaster Board is requested to approve the minutes.

IV. REVIEW OF AGENDA

If there are any items that arose after the 72-hour posting deadline, a vote may be taken to add the item to the agenda, pursuant to the requirements of Government Code Section 54954.2(b). (A 2/3-majority vote is required.)

V. PUBLIC PARTICIPATION/ ORAL COMMUNICATIONS

Oral communications is on each meeting agenda in order to provide members of the public an opportunity to address the Watermaster on matters within its jurisdiction. Matters not appearing on the agenda will not receive action at this meeting but may be referred to the Watermaster Administrator or may be set for a future meeting. Presentations will be limited to three minutes or as otherwise established by the Watermaster. In order that the speaker may be identified in the minutes of the meeting, it is helpful if speakers would use the microphone and state their names. Oral communications are now open

VI. CONSENT CALENDAR

Request approval for payment of December, 2006 bills

VII. OLD BUSINESS

1. COMMITTEE REPORTS

COMBINED TECHNICAL and BUDGET/FINANCE COMMITTEES:

DISCUSSION AND RECOMMENDATION ON AWARD OF CONTRACTS FOR PROVIDING CONSULTING SERVICES FOR MANAGING AND IMPLEMENTING THE SEASIDE GROUNDWATER BASIN AND MONITORING AND MANAGEMENT PROGRAM:

- A) Technical Committee** report on review and analysis of proposals submitted by MPWMD/MCWRA and RBF Consulting for providing consulting services for Managing and Implementing the Seaside Groundwater Basin Monitoring and Management Program
 - 1) Project limited to \$1 million-what can be accomplished?
 - 2) Complete entire court ordered project cost estimate and time line.

- B) Budget/Finance Committee** report and recommendation on award of contracts to MPWMD/MCWRA and RBF Consulting for providing consulting services for Managing and Implementing the Seaside Groundwater Basin Monitoring and Management Program.

AWARD OF CONTRACT

- A)** Award a contract, for an amount not exceed, \$126,712, to Monterey Peninsula Water Management District, (MPWMD)/Monterey County Water Resources Agency, (MCWRA) for the project management portion of the Seaside Basin Monitoring and Management Program.

- B)** Award a contract, for an amount not exceed, \$859,250, to RBF Consulting for the project Implementation portion of the Seaside Basin Monitoring and Management Program.

TECHNICAL COMMITTEE

Technical Committee report on review and analysis of request for reimbursement of \$2,370 to pay costs of having the firm of HydroFocus participate with the Martin Feeney consulting group in developing a groundwater flow model for the Seaside Basin.

- A)** Consider approving a budget increase and expenditure of \$2,370 to reimburse HydroFocus for participating in consulting group developing the groundwater flow model for the Seaside Basin

BUDGET/FINANCE COMMITTEE

Fiscal Year 2006 Financial Reports

- 1) Summary Income & Expense Report – Two Funds
- 2) Administrative Fund – Adopted Budget vs. Actual Expenditures
- 3) Monitoring and Management – Operations Fund – Adopted Budget vs. Actual Expenditures

Fiscal Year 2007 Financial Report

- 1) Assessments, Rollover Balances and Reserve Balances Report

VIII NEW BUSINESS

Summary of Payment and Recommendation on Approval of Future Requests for Payments

.IX INFORMATIONAL REPORTS (No Action Required)

Summary oral report on petition filed with superior court and heard on Friday, January 12, 2007 in Monterey Superior Court along with issue of replenishment formula between City of Seaside and California American Water.

X. DIRECTOR'S REPORTS

XI. NEXT MEETING DATE –FEBRUARY 7, 2007

XII. ADJOURNMENT

This agenda was forwarded via e-mail to the City Clerks of Seaside, Monterey, Sand City and Del Rey Oaks; the Clerk of the Monterey Board of Supervisors; the Clerk to the Monterey Peninsula Water Management District; the Clerk at the Monterey County Water Resources Agency and the California American Water Company for posting on January 12, 2007 per the Ralph M. Brown Act. Government Code Section 54954.2(a)..

REGULAR MEETING
Seaside Groundwater Basin Watermaster
December 6, 2006

MINUTES

I. CALL TO ORDER

Chairman Rubio called the meeting to order at 1:31 p.m. in the Seaside Community Center at Soper Field, 220 Coe Avenue, Seaside.

II. ROLL CALL

City of Seaside – Mayor Ralph Rubio, Chairman
Laguna Seca Subarea Landowner – Bob Costa, Vice Chairman
Monterey Peninsula Water Management District – Director Michelle Knight, Secretary
City of Monterey – Les Turnbeau, (alternate)
City of Sand City – Mayor David Pendergrass
California American Water Co. – Steve Leonard
City of Del Rey Oaks – Mayor Joseph Russell
Coastal Subarea Landowner – Paul Bruno

Absent: Monterey County/Monterey County Water Resources Agency – Jerry Smith, District 4 Supervisor

III. APPROVAL OF MINUTES OF October 27, 2006 Special Meeting, November 1, 2006 Regular Meeting, and November 15, 2006 Special Meeting

There were no questions or comments from the Board.

Moved by Director Costa, seconded by Mayor Russell, and unanimously carried, to approve the Watermaster October 27, 2006 Special Meeting, November 1, 2006 Regular Meeting, and November 15, 2006 Special Meeting minutes.

IV. REVIEW OF AGENDA

There were no changes to the agenda.

V. PUBLIC PARTICIPATION/ORAL COMMUNICATIONS

There were no questions or comments from the public.

VI. CONSENT CALENDAR

CEO Dewey Evans clarified that the line item of professional services presented on the Request for Payment is for meeting attendance and minutes transcribing by a contracted firm.

Contract Compensation—CEO	\$5,700.00
Reimbursable—General	2,137.40

Moved by Director Leonard, seconded by Director Turnbeau, and unanimously carried to approve the payment of bills.

VII. OLD BUSINESS

1. COMMITTEE REPORTS

AD HOC ADMINISTRATIVE COMMITTEE

No current report.

AD HOC RULES AND REGULATIONS COMMITTEE

No current report.

TECHNICAL COMMITTEE

Groundwater Modeling Component of the Basin Monitoring and Management Program (BMMP)

Ms. Diana Ingersoll, Technical Committee chair, stated that Mr. Martin Feeney, facilitator for the groundwater modeling, met with technical specialists Terry Foreman, Gus Yates, Joe Scalmanini, Timothy Turbin, and a representative from HydroFocus on November 28, 2006, at 11 a.m. to discuss the modeling project. A draft report is expected from Mr. Feeney on December 17, 2006. Ms. Ingersoll will review the report and convene a Technical Committee meeting to review and finalize the report and bring the results back to the next Board meeting on January 3, 2007. The most comprehensive form of the final report possible will be provided to Board members for review prior to the January 3rd meeting. No additional meetings of the facilitator and specialists are required.

Director Turnbeau inquired as to whether he could sit on both the Technical Committee and the Watermaster Board without any conflict. Chair Rubio stated that it is not uncommon for board directors of various agencies to serve on committees of their board. Ms. Ingersoll requested that Director Turnbeau continue with the Technical Committee while serving as an alternate to the Board.

Program Management and Implementation of the BMMP

Ms. Ingersoll reported that she and Committee member Charles Kemp met with Monterey Peninsula Water Management District/Monterey County Water Resources Agency, Board-approved program managers, and, at a separate meeting, RBF Consulting, Board-approved program implementers, to negotiate scope of services and costs for each of the services. Results of those meetings will be presented under New Business.

VIII. NEW BUSINESS

1. Budget Amendment for Participation by Laguna Seca Subarea Selected Groundwater Specialist at Groundwater Modeling Meeting

CEO Evans related that the Laguna Seca Subarea parties requested to have groundwater specialist Mr. John L. Fio, Hydrofocus, Inc., sit in at the meeting facilitated by Martin Feeney on November 28, 2006. The cost brought back from that meeting for the additional participant is \$2,370.

Moved by Director Turnbeau, seconded by Mayor Russell, and unanimously carried, to direct the Technical Committee to clarify with Mr. Feeney the level of expertise of Mr. Fio of HydroFocus, and determine what services he rendered and recommend whether the Board should consider a budget amendment of \$2,370 to cover the cost of Mr. Fio's participation in the November 28, 2006 meeting.

2. Consider Award of Contract to Monterey Peninsula Water Management District/Monterey County Water Resources Agency for BMMP Project Management

After public input and Board discussion regarding the possible appearance of conflict of interest, Director Knight chose to recuse on this item, and asked that in the future, for consistency, any Board member associated with any agency contracting with the Board also recuse. Mr. John Fischer, Pacific Grove resident, suggested asking the Court how to handle this matter.

3. Consider Award of Contract to RBF Consulting for BMMP Project Implementation

Ms. Ingersoll submitted to the Board and public estimated budget and scope of services documents. She explained that the presentation of the recommended award of contract would combine both services, although the Board concurred to act on each separately. Ms. Ingersoll reported that five Technical Committee members reviewed the submitted proposals for services, and Committee members Ingersoll and Kemp, as instructed by the Board, prepared an estimated scope and budget for both services based on the proposals and meetings with the selected firms. She recommended that each contract be awarded on a maximum not-to-exceed basis since most program costs are not known at this point: The budget estimate includes primarily "soft" costs such as data gathering, report writing, and bid preparation; hard costs, with the exception of some computer hardware and software, are not included. Estimated total labor cost for both program management and implementation services is \$1,930,306.

The Board and public discussed the lack of funds available to cover the \$1.9 million cost of the scope and budget items proposed for management and implementation services. The rates presented in the estimated budget are honored through 2007 however costs may increase in an attempt to meet required project deadlines if delays in contracting occur.

Chair Rubio requested that the Budget Committee provide the Board a report of budget to actual revenue and expenditures monthly for the next several months, including project costs once awarded and implemented. Director Knight commended Ms. Ingersoll and Mr. Kemp for her tremendous effort in preparing and presenting the submitted budget documents.

Moved by Director Leonard, seconded by Director Bruno, and unanimously carried, to direct the Technical Committee and Budget Committee to hold a joint meeting to review the presented estimated budget hourly rates and scope of services to determine what level and degree of prioritized project tasks can be completed at a maximum cost of \$1 million, and to develop timely funding sources.

IX. STAFF INFORMATIONAL REPORTS

The Board received and reviewed the summary schedule of adopted financial assessments that will be billed after the December 6th meeting, to be paid on or before January 15, 2007, assuming Court approval on January 12, 2007.

X. DIRECTOR'S REPORTS

There were no reports from directors.

XI. NEXT REGULAR MEETING DATE – January 3, 2007, 1:30 P.M., SOPER FIELD, SEASIDE, CALIFORNIA.

XII. ADJOURNMENT

There being no further business, Chairman Rubio adjourned the meeting at 2:34 p.m.

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

To: Board of Directors

From: Dewey D Evans, CEO

Date: January 17, 2007

Subject: Payment of December, 2006 Bills

Recommendation:

That the Board of Directors approve the payment of bills as listed on the attached schedule

Comments:

Contract Compensation—For the period November 30 through December 31, 2006 I recorded a total of 62 direct hours working on Watermaster related business. During this period there was only one Board meeting to prepare for with the related staff reports to prepare. One of the major focuses for this period was the implementation of a more comprehensive financial/accounting system. A decision was made to setup the financial records on a QuickBooks-Nonprofit 2007 software program. This replaced a more informal system that had out lived its usefulness. Considerable time was also spent preparing for and attending meetings working with the Technical and Budget Committees dealing with the monitoring and management programs for the basin.

Reimbursables—Direct costs that I am requesting to be reimbursed for include: monthly rent of office space at 2600 Garden Road, Suite 228; expense of setting up a more comprehensive budgeting and accounting system with the purchase of the QuickBooks-Nonprofit 2007 software program. Administrative support with the recording and preparation of Board minutes and assistance with setting up and data entry into the QuickBooks accounting system. Telephone and internet services for two months, general office supplies and the purchase of an office paper shredder.

Thanks, Dewey

**SEASIDE GROUNDWATER BASIN
WATERMASTER
December, 2006**

Request for Payment of Bills

Request for Payments:

Contract Compensation:

Chief Executive Officer-Dewey D Evans

62 hours worked November 30 through December 31, 2006

At \$75.00 per hour--

\$4,650.00

Reimbursables:

Pay to Dewey D Evans for personal expenses paid on behalf of
Watermaster program:

Office rental-2600 Garden Road, Suite 228	\$280.00
Computer software purchase—QuickBooks – Nonprofit 2007	430.99
Administrative Support Services-preparation of Board meeting minutes and setup and data entry in QuickBooks	487.50
Telephone and Internet Services (Nov. 13 thru Jan. 12)	184.26
Computer and Printer Paper	62.04
Office Supplies (Postage, keys and general office)	82.16
Paper Shredder	<u>85.79</u>
Total Reimbursable	<u>\$1,612.74</u>

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

To: Board of Directors

From: Dewey D Evans, CEO

Date: January 17, 2007

Subject: Discussion and Recommendation on Award of Contracts for Providing Consulting Services for the Management and Implementation of the Seaside Groundwater Basin and Monitoring and Management Program.

Recommendation:

After listening to discussions on the best and most economic approach to accomplish the requirements of the court order within the financial limitation imposed by the court, it is recommended that the Board award two contracts. The first contract to be awarded to MPWMD/MCWRA for a fee not to exceed \$126,712 for the project Management portion of the Seaside Basin Monitoring and Management Program and the second contract to be awarded to RBF Consulting for an amount not to exceed \$859,250 for the project Implementation portion of the Seaside Basin Monitoring and Management Program.

Comments:

The Technical Committee and the Budget/Finance Committee members have been meeting with the representatives of MPWMD/MCWRA and RBF Consulting to discuss, analyze and pursue the best and most economical way to accomplish the requirements of the court order within the financial limit of \$1 million. After several meetings and some amount of effort the proposed consultants have been able to come up with a plan to accomplish some of the initial work necessary to comply with the court order. It should be pointed out that some on-going implementation or monitoring activities have been removed from the scope and budget to reduce the overall cost. Recognizing that there will be additional funding required in order to provide for the long-term maintenance of the Seaside Basin Monitoring and Management Program.

Thank you,
Dewey
641-0113 office or 233-0063 cell

SUMMARY OF SCOPE CHANGES (\$1,000,000 BUDGET)

The following summary describes changes to the proposed scope of work for the Seaside Basin Monitoring and Management Program (MMP) that can be achieved under the Court order's authorized budget. The revised scope and budget was developed collaboratively with the following assumptions:

- MMP tasks should be performed in logical and sequential steps, with key activities prioritized.
- Some on-going implementation or monitoring activities were removed from the scope and budget recognizing that additional funding will be required for long-term maintenance of the MMP.
- The detailed schedule and budget analysis will be presented to the Judge as a petition to approve a realistic budget for the full scope of MMP.

Management

- As a first step in the Program Administration, a detailed schedule and budget would be prepared to provide the Watermaster Board and the Judge with a comprehensive analysis of the total program costs, including both hard and soft costs. This analysis will be the basis of a petition to the Judge for approval of the full program cost.
- The labor budget for additional program administration activities (e.g. meetings) was reduced by half to reflect a six-month period rather than a full year.

Implementation

I.1. Monitoring Well Program

- Key activities for monitoring well construction include site selection, permitting, and design.
- Actual construction costs and construction management are not included in this scope.
- Development of basis of design report and bid documents will provide the Watermaster with realistic cost estimates for monitoring well construction.

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

- Existing data is extensive but needs to be compiled and developed into a single database.
- Additional data collection is dependent on construction of the monitoring wells. Therefore, tasks contingent upon I.1 Monitoring Well Program activities were removed from this scope.
- Dedicated transducers/dataloggers would be installed in existing monitoring wells selected for the program. Monitoring and sampling of these wells would occur.

I.3. Basin Management

- Implementation of a consensus-based ground water model is a top priority.
- Supplemental water supply and pumping redistribution strategies are key basin management tasks.

I.4. Seawater Intrusion Contingency Plan

- Historical data is available to initiate baseline water level contour mapping prior to additional monitoring well construction and should be developed in the early program stages.

MEMORANDUM

To: Diana Ingersoll JN 70100045
From: Larry Gallery
Date: January 9, 2007
Subject: Preliminary Estimate of Seaside Basin Monitoring Well Costs

Per your request, this memorandum provides an initial preliminary "ball park" estimate of the "hard" costs, or actual facility and construction costs, to install the monitoring wells identified in the Seaside Basin Management and Monitoring Program. This estimate has been provided by our subconsultants, ASR Systems and Pueblo Water Resources.

Assumptions for the cost estimate are as follows:

- The Basin Monitoring Program portion of the RFP doesn't clearly establish the drilling/completion depths for the monitoring wells that could be used as a basis for cost estimation, although the RFP estimate was derived using an average total depth at each site of 1800 feet and a footage cost of \$100 as identified in Figure 6 (please see attached).
- This 1800 ft. per site basis appears inconsistent with the objectives of the program as discussed in the RFP and inadequate to achieve the objectives since four wells are recommended per site.
- We have assumed the actual drilling and completion footage for each site could total 5300 feet of completed well per site: 1800, 1500, 1200, 800.
- As part of a more detailed analysis of the program scope, the schedule and budget can be redefined, possibly resulting in reduced costs or construction phasing.
- The preliminary estimate of construction costs for six cluster well sites for salt water intrusion monitor wells, with four wells per site, is **approximately \$3.8 million** [5,300 ft./site x 6 (six) sites x \$100/ft x 20 percent contingency].
- Please note that the \$100 per foot of each well is a very preliminary number. The first step of the project implementation tasks would be to prepare a detailed cost analysis of both hard and soft costs.
- Please see attached sections C.2 and C.5 of the Basin Monitoring Program in the RFP.

of Monterey County (TAMC) has recently acquired this property from the Union Pacific Railroad. Sites along the railroad alignment are less ideal in that they are approximately 500 to 1,500 feet farther from the coastline than the coastal bluff sites, but the approval process for use of these sites is anticipated to be less time consuming, and the MPWMD has already initiated discussions with TAMC on this issue. In any event, additional documentation from the Court endorsing its order to install the additional coastal monitor wells may be beneficial for the Watermaster to receive timely authorization for these monitor well installations.

As explained above, given the complexity of land use constraints and jurisdictional authority in the local setting, it is not likely that the exploratory drilling program can be conducted in the precise fashion described in Exhibit A of the *Decision*. Additionally, it is not envisioned that the exploratory drilling and geophysical surveys will be conducted as separate advance activities to facilitate subsequent siting of the new monitor well locations. Rather, monitor well clusters shall be installed at each of the carefully selected sites described above, with monitor well design and number of wells at each site guided by the lithologic and geophysical data to be collected in the manner described below. This is based on the MPWMD's past experience with exploratory drilling in the basin, wherein the actual occurrence of, and lithologic conditions within, each aquifer were variable from site to site, making it difficult to presume the monitor well designs and number of wells to be completed in advance. It is also noted that timely completion of the exploratory drilling and monitor well installation program described herein will require specialized drilling contractor services that may not be available locally, and could be limited by contractor availability.

2. Exploratory Borehole Drilling Program

A pilot borehole shall be constructed at each site, with the total depth targeted for the top of the Monterey Formation, which represents the effective base of the freshwater bearing formations at nearby locations in the basin. Total drilling depth at each site is anticipated to be 1,500 to 2,500 feet. Borehole lithologic samples (i.e., grab samples) shall be collected at ten-foot intervals (with the exception of any depths in the borehole at which continuous core samples can be collected). All collected lithologic samples shall be prepared and placed into labeled cases for storage and future inspection.

3. Geophysical Surveys

Upon completion of pilot drilling to the total depth, a complete suite of open borehole geophysical logs shall be run, including resistivity, spontaneous potential, caliper, temperature, gamma ray, and electromagnetic conductivity (EM) logs. These geophysical logs will provide a basis for describing the distribution of aquifers, occurrence of fine-grained interbeds and confining units between aquifers, water quality variations with depth, and the nature of groundwater flow and potential seawater intrusion, as was completed for a recent similar deep coastal monitor well construction project to the north of the Seaside Basin in the City of Marina (Hanson and others, 2002.

Geohydrology of a Deep-Aquifer System Monitoring-Well Site at Marina, Monterey County, California. U.S. Geological Survey Water-Resources Investigations Report 02-4003. Prepared in cooperation with the Monterey County Water Resources Agency (see page 12 for geophysical data description). In addition to the borehole geophysical logs, additional geophysical logging shall be conducted on the deepest cased well at each site and shall include gamma ray and EM logs. This additional logging will allow for comparisons with future annual geophysical logging surveys at each site as part of the ongoing monitoring program for early detection of salinity changes (i.e., potential seawater intrusion) into discrete zones within the aquifer system, that may otherwise go undetected by standard water quality sample collection.

5. New Monitoring Wells

Monitor well design shall be by multiple-well clusters at each site, either in the same or separate boreholes, unless an alternate well construction technique is authorized. Where present at each site, separate well casing strings shall be constructed with screened intervals within each recognized aquifer of the basin (e.g., Aromas Sand, Paso Robles, Santa Margarita) to provide a detailed vertical characterization of water levels and quality through the aquifer system. If observed conditions warrant, more than one well casing may be installed in each aquifer to more discretely characterize variable conditions in specific zones within the aquifer; however, this cannot be determined in advance of the exploratory drilling, as described above. For estimating purposes, it is assumed that four (4) wells will be installed at each well site cluster. The screened interval of each casing string shall be separated from other well completions by isolation seals if multiple wells are constructed in the same borehole. Each monitor well casing shall be a minimum two-inch inside diameter, and the deepest casing string at each well cluster shall be a minimum three-inch inside diameter to accommodate cased well geophysical logging tools.

D. Comprehensive Basin Production, Water Level and Water Quality Program

1. Purpose

The comprehensive monitoring program described herein is intended to guide ongoing data collection efforts in the basin to efficiently and economically provide the pertinent groundwater resource data that will establish a defensible basis for future decision-making by the Watermaster. Monitoring data collection tasks are described according to well location in or near the Seaside Basin. Coastal “sentinel” monitor wells refers to the closest monitor well sites to the coastline. Inland monitor wells refers to the monitor well locations in and near the Northern Inland and Laguna Seca subareas, and those monitor wells in the Southern and Northern Coastal subareas that are not included in the coastal sentinel monitor well network. “Production wells” refers to such wells in all four subareas of the basin.

**Figure 6. Seaside Basin Monitoring and Management Program "Order of Magnitude"
Cost Estimate Summary for Basin Monitoring Program Portion**

Task	Cost / Unit	# of Units	Cost / Site	# of Sites	One-Time Cost	Annual Cost
Exploratory drilling / geophysical surveying / monitor well construction Assume average TD = 1,800 feet; \$100/ft lump sum	\$100	1800	\$180,000	6	\$1,080,000	
Basic groundwater resource database						
Develop / populate: 200 hours	\$70	200			\$14,000	
Annual maintenance: 40 hours/quarter x 4/yr	\$70	160				\$11,200
Monitoring of coastal "sentinel" monitor wells						
Purchase/install WL/WQ dataloggers (6 existing wells; 16 new wells)	\$2,000	22			\$44,000	
Manual WL monitoring: 8 hrs/mo x 12 mo/yr	\$70	96				\$6,720
WQ sample collection: 3 hrs/pers/site x 2 pers x 4/yr	\$70	24	\$1,680	8		\$13,440
WQ sample lab analyses: \$200/sample gen. Minerals x 4/yr x 22 wells	\$200	4		22		\$17,600
Annual maintenance, WL/WQ dataloggers: 16 hrs/quarter x 4/yr	\$70	64				\$4,480
Annual geophysical surveys	\$1,500			4		\$6,000
Monitoring of inland monitor wells						
Manual WL monitoring: 8 hrs/quarter x 4/yr	\$70	32				\$2,240
Purchase/install WL/WQ dataloggers (2 existing wells)	\$2,000	2			\$4,000	
TOTAL ONE-TIME COST					\$1,142,000	
TOTAL ANNUAL COST (first year)						\$61,680

NOTES:

1. Cost estimates are at the preliminary "order of magnitude" level, with estimated accuracy of +/- 40%.
2. Cost estimates are subject to change as plans and scope are refined by Watermaster

DRAFT
TABLE 4-1

Seaside Basin Monitoring and Management Program								
MPWMD/ MCWRA and RBF Team Revised Scope and Budget (\$1M, Includes Modeling)								
Task No.	Task Description	Lead	Mgmt (M) Impl (I)	Performed By		Labor Budget		
				MPWMD/ MCWRA	RBF Team	MPWMD	RBF Team	Total
M. 1	Program Administration	MPWMD	M					
M. 1. b.	Preparation and Control of Detailed Primavera Schedule	MPWMD	M/I	x	RBF	\$ 4,752	\$ 40,000	\$ 44,752
M. 1. c.	Preparation and Control of Detailed Project Budget	MPWMD	M	x	RBF	\$ 4,176	\$ 20,000	\$ 24,176
M. 1. d.	Manage Consultant Contracts	MPWMD	M	x		\$ 4,752	\$ -	\$ 4,752
M. 1. e.	Review/ Approve Consultant Invoices	MPWMD	M	x		\$ 1,044	\$ -	\$ 1,044
M. 1. f.	Assist with Board and TAC Agendas	MPWMD	M	x		\$ 2,376	\$ -	\$ 2,376
M. 1. g.	Coordinate Project Team Meetings	MPWMD	M	x		\$ 1,584	\$ -	\$ 1,584
M. 1. h.	Prepare Board and TAC Reports	MPWMD	M	x		\$ 2,376	\$ -	\$ 2,376
M. 1. i.	Attendance of Meetings	MPWMD	M/I	x	RBF	\$ 2,970	\$ 30,250	\$ 33,220
M. 1. j.	Status Updates	MPWMD	M/I	x	RBF	\$ 594	\$ 30,250	\$ 30,844
M. 1. k.	Peer Review of Documents and Reports	MPWMD	M	x	RBF	\$ 3,564	\$ 4,000	\$ 7,564
M. 1. l.	QA/QC	MPWMD	M	x		\$ 792	\$ -	\$ 792
					<i>Subtotal</i>	\$ 28,980	\$ 124,500	\$ 153,480
I. 1.	Monitor Well Construction	RBF						
I. 1. b.	New Well Site Selection and Acquisition	RBF	M/I	x	RBF	\$ 1,980	\$ 32,500	\$ 34,480
I. 1. c.	Secure New Well Permits/ Environmental Review	RBF	I		RBF	\$ -	\$ 32,500	\$ 32,500
I. 1. d.	Basis of Design Report	RBF	I		RBF/ASRS/Pueblo	\$ -	\$ 17,500	\$ 17,500
I. 1. e.	Technical Specifications and Bid Documents	RBF	I		RBF/ASRS/Pueblo	\$ -	\$ -	\$ -
I. 1. e. 1.	Develop 90% Specs and Schedule	RBF	I			\$ -	\$ 16,500	\$ 16,500
I. 1. e. 2.	Final Specs, Bid Sheet, Engineer's Cost-Est	RBF	I			\$ -	\$ 8,750	\$ 8,750
I. 1. e. 3.	Assist in Permit Acquisition	RBF	I			\$ -	\$ 9,050	\$ 9,050
					<i>Subtotal</i>	\$ 1,980	\$ 116,800	\$ 118,780
I. 2.	Production, Water Level and Quality Monitoring	RBF						
I. 2. a.	Basin Management Database Development	RBF	I					
I. 2. a. 1.	Coordination with Watermaster to Review Database	RBF	M/I	x	RBF	\$ 1,584	\$ 30,000	\$ 31,584
I. 2. a. 1. 1	Review of MPWMD Database to Catalog Historical Data	RBF	I					
I. 2. a. 1. 2	Review of MPWMD Database to Catalog Ongoing Data Collection	RBF	I					
I. 2. a. 2.	Develop Scope to Enhance or Develop New Database	RBF	I		RBF	\$ -	\$ 5,000	\$ 5,000
I. 2. a. 3.	Create Basin Management Database	RBF	I	x	RBF	\$ 2,680	\$ 20,000	\$ 22,680
I. 2. a. 4.	Populate Database with Data from all sources	RBF	I		RBF	\$ -	\$ 20,000	\$ 20,000
I. 2. a. 5.	Conduct ongoing data entry/ database maintenance	RBF	M / I	x	RBF	\$ 2,208	\$ 22,000	\$ 24,208
I. 2. b.	Data Exchange and Collection	MPWMD	M	x	RBF			
I. 2. b. 1.	Establish Agreements and Schedule	MPWMD	M			\$ 1,128	\$ 7,000	\$ 8,128
I. 2. b. 2.	Establish Data Types, Formats	MPWMD	M			\$ 5,640	\$ 7,000	\$ 12,640
I. 2. b. 3.	Purchase Database Server Hardware	MPWMD	M			\$ 4,200	\$ -	\$ 4,200
I. 2. e.	Review Existing Water Level Monitoring Program	MPWMD	I	x	RBF/ASRS/Pueblo	\$ 552	\$ 16,000	\$ 16,552
I. 2. f.	Review Existing Water Quality Monitoring Program	MPWMD	I	x	RBF/ASRS/Pueblo	\$ 552	\$ 16,000	\$ 16,552
I. 2. g.	Data Collection Program Enhancements	MPWMD	I	x				
I. 2. g. 2.	Install Dedicated Transducers/Dataloggers (6 existing wells)	MPWMD	I	x		\$ 12,000	\$ -	\$ 12,000
I. 2. g. 3.	Collect Monthly Manual Water Levels	MPWMD	M	x		\$ 6,624	\$ -	\$ 6,624
I. 2. g. 4. 1	Collect Quarterly Water Quality Samples	MPWMD	M	x		\$ 26,496	\$ -	\$ 26,496
					<i>Subtotal</i>	\$ 63,664	\$ 143,000	\$ 206,664

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TABLE 4-1

Seaside Basin Monitoring and Management Program								
MPWMD/ MCWRA and RBF Team Revised Scope and Budget (\$1M, Includes Modeling)								
Task No.	Task Description	Lead	Mgmt (M) Impl (I)	Performed By		Labor Budget		
				MPWMD/ MCWRA	RBF Team	MPWMD	RBF Team	Total
I. 3	Basin Management	RBF						
I. 3. a.	Develop Criteria and Protocol for Management Actions	RBF/ MPWMD	M/I	x	RBF/MPWMD	\$ 3,280	\$ 6,000	\$ 9,280
I. 3. b.	Enhanced Seaside Basin Groundwater Model							
I. 3. b. 1.	Oversight of Groundwater Model Development Program	RBF/ MPWMD	M	x	RBF/ MPWMD	\$ 4,920	\$ -	\$ 4,920
I. 3. b. 2.	Identify Questions, Concerns, and Issues for Model- Develop Watermaster Goals	RBF	M/I		RBF/ HydroMetrics	\$ -	\$ 20,500	\$ 20,500
I. 3. b. 3.	Develop Scope to and Costs for Model	RBF	I		RBF/ HydroMetrics	\$ -	\$ 20,500	\$ 20,500
I. 3. b. 4.	Develop an Agreeable Basin Water Budget	RBF	I		RBF/ HydroMetrics	\$ -	\$ 15,000	\$ 15,000
I. 3. b. 5.	Extract Info from Other Models	RBF	I		RBF/ HydroMetrics	\$ -	\$ 9,700	\$ 9,700
I. 3. b. 6.	Import All Data into Model Environment	RBF	I		RBF/ HydroMetrics	\$ -	\$ 14,100	\$ 14,100
I. 3. b. 7.	Calibrate Model to Measured Data	RBF	I		RBF/ HydroMetrics	\$ -	\$ 14,100	\$ 14,100
I. 3. b. 8.	Run Model to Enhance Basin Management/ Address Questions	RBF	I		RBF/ HydroMetrics	\$ -	\$ 34,250	\$ 34,250
I. 3. c.	Prepare Basin Management and Action Plan	RBF	I	x	RBF/ HydroMetrics	\$ 6,560	\$ -	\$ 6,560
I. 3. c. 1.	Supplemental Water Supplies	RBF	I		RBF/ASRS			
I. 3. c. 1. 1	Review Of Monterey Peninsula Water Supply Projects Distribution and Delivery System/ End Use Consumer Improvements and Mandatory Conservation Efforts	RBF	I			\$ -	\$ 13,300	\$ 13,300
I. 3. c. 1. 2	Non-Potable Water Resources	RBF	I			\$ -	\$ 13,600	\$ 13,600
I. 3. c. 1. 3	Out-of-Basin Imports	RBF	I			\$ -	\$ 14,700	\$ 14,700
I. 3. c. 1. 4	Develop Technical Memorandum	RBF	I			\$ -	\$ 18,200	\$ 18,200
I. 3. c. 1. 5		RBF	I			\$ -	\$ 18,200	\$ 18,200
I. 3. c. 2.	Pumping Redistribution Strategies	RBF	I		RBF/ HydroMetrics/ASRS			
I. 3. c. 2. 1	Basin overdraft, mandatory GW reduction	RBF	I			\$ -	\$ 5,700	\$ 5,700
I. 3. c. 2. 2	Salinity detection, mandatory GW reduction	RBF	I			\$ -	\$ 5,700	\$ 5,700
I. 3. c. 2. 3	Reduced GW delivery impacts and solutions	RBF	I			\$ -	\$ 20,400	\$ 20,400
I. 3. c. 2. 4	In Lieu, Voluntary pumping reductions	RBF	I			\$ -	\$ 12,900	\$ 12,900
I. 3. c. 2. 5	Water Banking	RBF	I			\$ -	\$ 13,500	\$ 13,500
I. 3. c. 2. 6	Salinity barrier system	RBF	I			\$ -	\$ 13,500	\$ 13,500
I. 3. c. 2. 7	Develop TM on pumping variability	RBF	I			\$ -	\$ 20,750	\$ 20,750
					<i>Subtotal</i>	\$ 14,760	\$ 304,600	\$ 319,360
I. 4.	Seawater Intrusion Contingency Plan	RBF	M/I					
I. 4. a.	Oversight of Seawater Intrusion Detection and Tracking	MCWRA	M	x		\$ 3,648	\$ -	\$ 3,648
I. 4. b.	Develop Seawater Intrusion Analysis Protocol	RBF		x	RBF/ HydroMetrics/ASRS	\$ 3,648	\$ 11,500	\$ 15,148
I. 4. c.	Identify and Locate Wells	RBF		x	RBF/ HydroMetrics	\$ 912	\$ 18,500	\$ 19,412
I. 4. d.	Compile and QA Historical Data	RBF		x	RBF/ HydroMetrics	\$ 1,824	\$ 17,000	\$ 18,824
I. 4. e.	Prepare Baseline Water Level Contour Mapping	RBF			MCRWA RBF/HydroMetrics	\$ 912	\$ 12,500	\$ 13,412
I. 4. f.	Prepare Mapped Representation of Baseline Basin Pumping	RBF			MCWRA RBF/HydroMetrics	\$ 912	\$ 12,500	\$ 13,412
I. 4. g.	Graph and Map Historical Data/Establish Baseline Water Quality	RBF		x	RBF/ HydroMetrics	\$ 1,824	\$ 16,800	\$ 18,624
I. 4. i.	Annual Report- Seawater Intrusion Analysis	RBF		x	RBF/ HydroMetrics	\$ 3,648	\$ 20,050	\$ 23,698
					<i>Subtotal</i>	\$ 17,328	\$ 108,850	\$ 126,178
					TOTAL	\$ 126,712	\$ 797,750	\$ 924,462
Notes: x- indicates work performed by								
M- indicates Management								
I- indicates Implementation								
Tasks M.1.d - M.1.i are for duration 6 mths								

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TABLE 4-2
Detailed Scope and Budget by Hour (\$1M Budget)

Seaside Basin Monitoring and Management Program Proposed Scope and Labor Budget																						
Task Description		Labor Budget																				
		MPWMD/ MCWRA			RBF				ASR Systems/ Pueblo Water Resources							Hydrometrics			RBF Team Subtotal	Task Total		
Task No.		Hours	Rate	Subtotal	Project Manager	Project Engineer	Designer	Subtotal per Task	Eng 7	Eng 6	HG 5	HG 4	HG 3	CAD	Tech	Office Support	Subtotal per Task	HG			Staff	Subtotal per Task
M. 1	Program Administration				\$220	\$160	\$120		\$187	\$181	\$155	\$143	\$114	\$70	\$58	\$58		\$141	\$110			
M. 1. b.	Preparation and Control of Detailed Primavera Schedule	48	\$ 99	\$ 4,752	80	140		\$ 40,000												\$ 40,000	\$ 44,752	
M. 1. c.	Preparation and Control of Detailed Project Budget	72	\$ 58	\$ 4,176	40	70		\$ 20,000												\$ 20,000	\$ 24,176	
M. 1. d.	Manage Consultant Contracts	48	\$ 99	\$ 4,752				\$ -												\$ -	\$ 4,752	
M. 1. e.	Review/Approve Consultant Invoices	18	\$ 58	\$ 1,044				\$ -												\$ -	\$ 1,044	
M. 1. f.	Assist with Board and TAC Agendas	24	\$ 99	\$ 2,376				\$ -												\$ -	\$ 2,376	
M. 1. g.	Coordinate Project Team Meetings	16	\$ 99	\$ 1,584				\$ -												\$ -	\$ 1,584	
M. 1. h.	Prepare Board and TAC Reports	24	\$ 99	\$ 2,376				\$ -												\$ -	\$ 2,376	
M. 1. i.	Attendance of Meetings	30	\$ 99	\$ 2,970	56	113		\$ 30,210												\$ 30,250	\$ 33,220	
M. 1. j.	Status Updates	6	\$ 99	\$ 594	56	113		\$ 30,210												\$ 30,250	\$ 30,844	
M. 1. k.	Peer Review of Documents and Reports	36	\$ 99	\$ 3,564	8	14		\$ 4,000												\$ 4,000	\$ 7,564	
M. 1. l.	QA/QC	8	\$ 99	\$ 792				\$ -												\$ -	\$ 792	
				\$ 28,980				\$ 124,500									\$ -			\$ -	\$ 124,500	\$ 153,480
I. 1.	Monitor Well Construction																					
I. 1. b.	New Well Site Selection and Acquisition	20	\$ 99	\$ 1,980	40	148		\$ 32,500												\$ 32,500	\$ 34,480	
I. 1. c.	Secure New Well Permits/ Environmental Review			\$ -	40	148		\$ 32,500												\$ 32,500	\$ 32,500	
I. 1. d.	Basis of Design Report			\$ -				\$ -	14	28	56				10	11	\$ 17,500				\$ 17,500	\$ 17,500
I. 1. e.	Technical Specifications and Bid Documents			\$ -				\$ -												\$ -	\$ -	
I. 1. e. 1.	Develop 90% Specs and Schedule			\$ -				\$ -	4	14	36	42			18	10	\$ 16,500				\$ 16,500	\$ 16,500
I. 1. e. 2.	Final Specs, Bid Sheet, Engineer's Cost-Est			\$ -				\$ -		6	16	28			10	10	\$ 8,730				\$ 8,750	\$ 8,750
I. 1. e. 3.	Assist in Permit Acquisition			\$ -				\$ -		10	18	26			6	7	\$ 9,060				\$ 9,050	\$ 9,050
				\$ 1,980				\$ 65,000									\$ 51,790			\$ -	\$ 116,800	\$ 118,780
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	32	67	102	\$ 30,000												\$ 30,000	\$ 31,584	
I. 2. a. 1. 1	Review of MPWMD Database to Catalog Historical Data			\$ -				\$ -												\$ -	\$ -	
I. 2. a. 1. 2	Review of MPWMD Database to Catalog Ongoing Data Collection			\$ -				\$ -												\$ -	\$ -	
I. 2. a. 2.	Develop Scope to Enhance or Develop New Database			\$ -	8	20		\$ 5,000												\$ 5,000	\$ 5,000	
I. 2. a. 3.	Create Basin Management Database	40	\$ 67	\$ 2,680		125		\$ 20,000												\$ 20,000	\$ 22,680	
I. 2. a. 4.	Populate Database with Data from all sources			\$ -		125		\$ 20,000												\$ 20,000	\$ 20,000	
I. 2. a. 5.	Conduct ongoing data entry/ database maintenance	32	\$ 69	\$ 2,208		138		\$ 22,100												\$ 22,000	\$ 24,208	
I. 2. b.	Data Exchange and Collection			\$ -				\$ -												\$ -	\$ -	
I. 2. b. 1.	Establish Agreements and Schedule	12	\$ 94	\$ 1,128	13	26		\$ 7,000												\$ 7,000	\$ 8,128	
I. 2. b. 2.	Establish Data Types, Formats	60	\$ 94	\$ 5,640	13	26		\$ 7,000												\$ 7,000	\$ 12,640	
I. 2. b. 3.	Purchase Database Server Hardware	1	\$ 4,200	\$ 4,200				\$ -												\$ -	\$ 4,200	
I. 2. e.	Review Existing Water Level Monitoring Program	8	\$ 69	\$ 552	2	10		\$ 2,000		20	12	60					\$ 14,000			\$ 16,000	\$ 16,552	
I. 2. f.	Review Existing Water Quality Monitoring Program	8	\$ 69	\$ 552	2	10		\$ 2,000		20	12	60					\$ 14,000			\$ 16,000	\$ 16,552	
I. 2. g.	Data Collection Program Enhancements			\$ -				\$ -												\$ -	\$ -	
I. 2. g. 2.	Install Dedicated Transducers/Dataloggers (6 existing wells)	6	\$ 2,000	\$ 12,000				\$ -												\$ -	\$ 12,000	
I. 2. g. 3.	Collect Monthly Manual Water Levels	96	\$ 69	\$ 6,624				\$ -												\$ -	\$ 6,624	
I. 2. g. 4. 1	Collect Quarterly Water Quality Samples	384	\$ 69	\$ 26,496				\$ -												\$ -	\$ 26,496	
				\$ 63,664				\$ 115,100									\$ 28,000			\$ -	\$ 143,000	\$ 206,664

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TABLE 4-2
Detailed Scope and Budget by Hour (\$1M Budget)

Seaside Basin Monitoring and Management Program Proposed Scope and Labor Budget																								
Task Description		Labor Budget																						
		MPWMD/ MCWRA			RBF				ASR Systems/ Pueblo Water Resources							Hydrometrics			RBF Team Subtotal	Task Total				
Task No.		Hours	Rate	Subtotal	Project Manager	Project Engineer	Designer	Subtotal per Task	Eng 7	Eng 6	HG 5	HG 4	HG 3	CAD	Tech	Office Support	Subtotal per Task	HG			Staff	Subtotal per Task		
I. 3	Basin Management																							
I. 3. a.	Develop Criteria and Protocol for Management Actions	40	\$ 82	\$ 3,280	20	4	8	\$ 6,000												\$ 6,000	\$ 9,280			
I. 3. b.	Enhanced Seaside Basin Groundwater Model																							
I. 3. b. 1.	Oversight of Groundwater Model Development Program	60	\$ 82	\$ 4,920				\$ -													\$ -	\$ 4,920		
I. 3. b. 2.	Identify Questions, Concerns, and Issues for Model- Develop Watermaster Goals			\$ -	6	12		\$ 3,200	2	2	2							\$1,000	40	97	\$16,310	\$ 20,500	\$ 20,500	
I. 3. b. 3.	Develop Scope to and Costs for Model			\$ -	6	12		\$ 3,200	2	2	2							\$1,000	40	97	\$16,310	\$ 20,500	\$ 20,500	
I. 3. b. 4.	Develop an Agreeable Basin Water Budget			\$ -				\$ -																
I. 3. b. 5.	Extract Info from Other Models			\$ -				\$ -											32	95	\$14,962	\$ 15,000	\$ 15,000	
I. 3. b. 6.	Import All Data into Model Environment			\$ -	6	12		\$ 3,200												99	\$10,890	\$ 14,100	\$ 14,100	
I. 3. b. 7.	Calibrate Model to Measured Data			\$ -	6	12		\$ 3,200												99	\$10,890	\$ 14,100	\$ 14,100	
I. 3. b. 8.	Run Model to Enhance Basin Management/ Address Questions			\$ -	10	16		\$ 4,800	2	10	20										\$5,300	\$ 34,250	\$ 34,250	
I. 3. c.	Prepare Basin Management and Action Plan	80	\$ 82	\$ 6,560				\$ -														\$ -	\$ 6,560	
I. 3. c. 1.	Supplemental Water Supplies							\$ -																
I. 3. c. 1. 1.	Review Of Monterey Peninsula Water Supply Projects			\$ -	20	32		\$ 9,500	14		8										\$3,800	\$ 13,300	\$ 13,300	
I. 3. c. 1. 2.	Distribution and Delivery System/ End Use Consumer Improvements and Mandatory Conservation Efforts			\$ -	20	32		\$ 9,500	15		8										\$4,000	\$ 13,600	\$ 13,600	
I. 3. c. 1. 3.	Non-Potable Water Resources			\$ -	20	32		\$ 9,500	22		8										\$5,300	\$ 14,700	\$ 14,700	
I. 3. c. 1. 4.	Out-of-Basin Imports			\$ -	20	28		\$ 8,900	40		12										\$9,300	\$ 18,200	\$ 18,200	
I. 3. c. 1. 5.	Develop Technical Memorandum			\$ -	20	28		\$ 8,900	40		12										\$9,300	\$ 18,200	\$ 18,200	
I. 3. c. 2.	Pumping Redistribution Strategies							\$ -																
I. 3. c. 2. 1.	Basin overdraft, mandatory GW reduction			\$ -	6	8		\$ 2,600	16												\$3,000	\$ 5,700	\$ 5,700	
I. 3. c. 2. 2.	Salinity detection, mandatory GW reduction			\$ -	6	8		\$ 2,600	16												\$3,000	\$ 5,700	\$ 5,700	
I. 3. c. 2. 3.	Reduced GW delivery impacts and solutions			\$ -	6	12		\$ 3,200	40	16	40	4									\$17,100	\$ 20,400	\$ 20,400	
I. 3. c. 2. 4.	In Lieu, Voluntary pumping reductions			\$ -	6	12		\$ 3,200	32	8	14										\$9,600	\$ 12,900	\$ 12,900	
I. 3. c. 2. 5.	Water Banking			\$ -	7	13		\$ 3,600	32	8	14	2									\$9,900	\$ 13,500	\$ 13,500	
I. 3. c. 2. 6.	Salinity barrier system			\$ -	7	13		\$ 3,600	32	8	14	2									\$9,900	\$ 13,500	\$ 13,500	
I. 3. c. 2. 7.	Develop TM on pumping variability			\$ -	8	10		\$ 3,400	60	4	32	4									\$17,400	\$ 20,750	\$ 20,750	
				\$ 14,760				\$ 92,100													\$ 108,900	\$ 103,240	\$ 304,600	\$ 319,360
I. 4.	Seawater Intrusion Contingency Plan																							
I. 4. a.	Oversight of Seawater Intrusion Detection and Tracking	32	\$ 114	\$ 3,648				\$ -														\$ -	\$ 3,648	
I. 4. b.	Develop Seawater Intrusion Analysis Protocol	32	\$ 114	\$ 3,648				\$ -																
I. 4. c.	Identify and Locate Wells	8	\$ 114	\$ 912	4	24	40	\$ 9,500											40	52	\$11,400	\$ 11,500	\$ 15,148	
I. 4. d.	Compile and QA Historical Data	16	\$ 114	\$ 1,824	4	24	40	\$ 4,700											55	42	\$12,400	\$ 17,000	\$ 18,824	
I. 4. e.	Prepare Baseline Water Level Contour Mapping	8	\$ 114	\$ 912	4	12	20	\$ 5,200											22	38	\$7,300	\$ 12,500	\$ 13,412	
I. 4. f.	Prepare Mapped Representation of Baseline Basin Pumping	8	\$ 114	\$ 912	4	12	20	\$ 5,200											22	38	\$7,300	\$ 12,500	\$ 13,412	
I. 4. g.	Graph and Map Historical Data/Establish Baseline Water Quality	16	\$ 114	\$ 1,824	4	12	40	\$ 7,600											28	48	\$9,200	\$ 16,800	\$ 18,624	
I. 4. l.	Annual Report- Seawater Intrusion Analysis	32	\$ 114	\$ 3,648	4	20	24	\$ 7,000											46	60	\$13,100	\$ 20,050	\$ 23,698	
				\$ 17,328				\$ 32,330													\$69,600	\$ 108,850	\$ 120,178	
				\$ 126,712				\$ 429,030													\$ 186,690	\$ 172,840	\$ 797,750	\$ 924,462
Notes:	x- indicates work performed by																							
	M- indicates Management																							
	I- indicates Implementation																							

TABLE 4-3

Seaside Basin Monitoring and Management Program				
ESTIMATED BUDGET SUMMARY (\$1M Budget)				
MPWMD/ MCWRA and RBF Team Costs				
Item	Cost Description	Total Fee	MPWMD/MCWRA	RBF Team
Labor Costs*	See Estimated Labor Budget Table For Details			
M.1 Program Administration		\$153,480	\$28,980	\$124,500
I.1 Monitor Well Construction		\$118,780	\$1,980	\$116,800
I.2 Production, Water Level and Quality Monitoring		\$206,664	\$63,664	\$143,000
I.3 Basin Management		\$319,360	\$14,760	\$304,600
I.4 Seawater Intrusion Contingency Plan		\$126,178	\$17,328	\$108,850
	<i>Subtotal</i>	\$924,462	\$126,712	\$797,750
Direct Costs				
	Model Documentation by Tim Durbin			\$25,000
	Baseline Water Quality Analyses (Gen. Mineral/Physical, 6 wells)			\$1,500
	Reproduction, Mileage and Miscellaneous			\$35,000
	<i>Subtotal</i>			\$61,500
TOTAL		\$985,962	\$126,712	\$859,250

*Note: Drilling Contractor costs for new monitoring wells is not included. Contractor bids will be solicited and contract to be awarded

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TABLE 4-4

Seaside Basin Monitoring and Management Program

Estimated Cash Flow Summary

		<i>Total</i>	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07
Management	M-1	\$ 153,480	\$ 48,556	\$ 48,556	\$ 14,092	\$ 14,092	\$ 14,092	\$ 14,092
Implementation	I-1	\$ 118,780			\$ 29,695	\$ 29,695	\$ 29,695	\$ 29,695
	I-2	\$ 206,664		\$ 41,333	\$ 41,333	\$ 41,333	\$ 41,333	\$ 41,333
	I-3	\$ 319,360		\$ 63,872	\$ 63,872	\$ 63,872	\$ 63,872	\$ 63,872
	I-4	\$ 126,178		\$ 25,236	\$ 25,236	\$ 25,236	\$ 25,236	\$ 25,236
Direct Costs		\$ 61,500	\$ 6,083	\$ 11,083	\$ 11,083	\$ 11,083	\$ 11,083	\$ 11,083
<i>Total by Month</i>		\$ 985,962	\$ 54,639	\$ 190,080	\$ 185,311	\$ 185,311	\$ 185,311	\$ 185,311

Note: Preliminary Cash Flow Estimate for 6 Mths. A detailed budget-loaded schedule will be prepared upon project kick-off

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

To: Board of Directors

From: Dewey D Evans, CEO

Date: January 17, 2007

Subject: Consider Approving a Budget Increase and Approve Expenditure of \$2,370 to pay the costs of having the firm of HydroFocus participate in developing a groundwater flow model for the Seaside Basin.

Recommendation: (two parts)

A) Approve a budget increase and request for payment of \$2,370 to cover the expenses incurred by the firm of HydroFocus to participate in the Martin Feeney consulting group in developing a recommendation on a groundwater flow modeling program for the Seaside Basin.

B) Establish a Board policy that before any future approval for payment is honored that the Board must approve in advance any participation of a firm or individual where expenses of any kind are to be paid for by the Watermaster.

Comments:

One of the requirements of the court decision entered into on March 27, 2006 was that the Watermaster was to “develop a suitable groundwater model of the Seaside Basin and appropriate adjacent areas” within one year of the judgment. In order to accomplish this mandate it was necessary to convene a panel of modeling experts to agree on the best modeling method to use for the Seaside Basin.

The panel of technical experts selected was comprised of experts who had previously represented a party in the trial. All of the panel members were compensated by the Watermaster and were not there as representatives of their prior clients. There were five panelists invited to participate.

Later, a request was made from the Laguna Seca landowners to add a representative of their choice and the Watermaster Board approved the request to allow that participation. At the time of the request no mention was made as to who would pay the costs associated with adding this additional consultant.

There have been arguments on both sides as to why or why not to pay for the participation of this additional consultant. In order to resolve the issue and move on I am recommending that the Watermaster Board approve this one time cost and establish a policy that will hopefully avoid future misunderstandings.

Thank you,
Dewey D Evans, CEO
641-0113 office or 233-0063 cell

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

To: Board of Directors

From: Dewey D Evans, CEO

Date: January 17, 2007

Subject: Financial Reports for Fiscal Year 2006 and 2007

Recommendation:

That the Board members review and comment on financial information presented in the following four reports. The first three reports summarize the Fiscal Year 2006 actual financial activity. The last report, for Fiscal Year 2007, summarizes the assessments, rollover financial balances and the reserve balances to start the year.

Comments:

Fiscal Year 2006 (January 1 through December 31, 2006:

The first three reports summarize all of the direct financial activity that has taken place during the entire calendar year 2006 (January 1 through December 31). While reviewing the reports keep in mind that only two separate funds were setup and had any financial activity during the year. These two funds were the Administrative Fund and the Monitoring & Management – Operations Fund.

The first report combines information from the two funds to show the overall financial activity for the year. Assessments received followed by expenses made and ending with the reserve balances. The third column is a memo only total, as the two funds are kept entirely separate.

The second report shows the financial activity for only the Administrative fund compared to the Board adopted Administrative budget for the year. Of the \$77,800 adopted budget only \$41,148.93 was spent leaving \$36,651.07 to be rolled over to the following fiscal year, 2007.

The third report shows the same financial activity for the year and reports that only \$900.00 was spent for a partial payment to the consultant Martin Feeney with the remainder of the \$200,000 assessment being rolled over to fiscal year, 2007.

Fiscal Year 2007 (January 1 through December 31, 2007)

The fourth and final report shows the initial three funds that have been setup to account for anticipated financial activities for this fiscal year, 2007. The top portion of the report shows the Board assessments made for the year; the second section shows the rollover money available from 2006. This is followed by subtracting out the reserve in the Administrative fund that the

Board adopted and the budgeted amounts that were approved for the 2007 fiscal year. The last figures represent unrestricted available balances in the three funds.

This is a lot of information to digest at any one time so I would be pleased to answer any questions or to go over the financial information in more detail at your convenience.

Thank you,

Dewey
641-0113 office or 233-0063 cell

Seaside Groundwater Basin Watermaster
Income & Expense by Fund
January through December 2006

	<u>Admin</u>	<u>M&M Ops</u>	<u>TOTAL (Memo Only)</u>
Assessment			
Administrative Fund	100,000.00	0.00	100,000.00
Monitoring & Mgmt Fund - Ops	0.00	200,000.00	200,000.00
Total Assessment	<u>100,000.00</u>	<u>200,000.00</u>	<u>300,000.00</u>
PRA processing fee	15.40	0.00	15.40
Total Income	<u>100,015.40</u>	<u>200,000.00</u>	<u>300,015.40</u>
Expense			
Administrative			
Computer Maint. & Supplies	489.97	0.00	489.97
Contract Staff	26,685.00	0.00	26,685.00
Furniture and Equipment	8,783.78	0.00	8,783.78
Meetings, Travel & Membership			
Publications & Memberships	34.16	0.00	34.16
Total Meetings, Travel & Membership	<u>34.16</u>	<u>0.00</u>	<u>34.16</u>
Office Consumables & Other			
Office Supplies, Postage	745.07	0.00	745.07
Printing	92.86	0.00	92.86
Total Office Consumables & Other	<u>837.93</u>	<u>0.00</u>	<u>837.93</u>
Office Rental	1,680.00	0.00	1,680.00
Professional Services	2,362.50	0.00	2,362.50
Utilities	275.59	0.00	275.59
Total Administrative	<u>41,148.93</u>	<u>0.00</u>	<u>41,148.93</u>
Monitoring & Management - Ops			
Groundwater Modeling			
Feeney, Martin B. 2006	0.00	900.00	900.00
Total Groundwater Modeling	<u>0.00</u>	<u>900.00</u>	<u>900.00</u>
Total Monitoring & Management - Ops	<u>0.00</u>	<u>900.00</u>	<u>900.00</u>
Total Expense	<u>41,148.93</u>	<u>900.00</u>	<u>42,048.93</u>
Net	58,866.47	199,100.00	257,966.47
Restricted Reserve	<u>22,200.00</u>	<u>0.00</u>	<u>22,200.00</u>
Available Reserve	<u><u>36,666.47</u></u>	<u><u>199,100.00</u></u>	<u><u>235,766.47</u></u>

Seaside Groundwater Basin Watermaster
Budget vs. Actual
Administrative Fund
 January through December 2006

	<u>Expenses</u>	<u>Budget</u>	<u>Variance</u>	<u>% of Budget</u>
Assessment				
Administrative Fund	100,000.00	77,800.00	22,200.00	128.54%
Total Assessment	<u>100,000.00</u>	<u>77,800.00</u>	<u>22,200.00</u>	<u>128.54%</u>
PRA processing fee	15.40			
Total Assessment	<u>100,015.40</u>	<u>77,800.00</u>	<u>22,215.40</u>	<u>128.55%</u>
Expense				
Administrative				
Computer Maint. & Supplies	489.97	1,000.00	-510.03	49.0%
Contract Staff	26,685.00	35,000.00	-8,315.00	76.24%
Employee Benefits	0.00	800.00	-800.00	0.0%
Equip. Maint. & Rental	0.00	500.00	-500.00	0.0%
Furniture and Equipment	8,783.78	10,000.00	-1,216.22	87.84%
Legal Notice	0.00	1,000.00	-1,000.00	0.0%
Meetings, Travel & Membership				
Publications & Memberships	34.16	500.00	-465.84	6.83%
Travel, Conf. & Meetings	0.00	1,000.00	-1,000.00	0.0%
Total Meetings, Travel & Membership	<u>34.16</u>	<u>1,500.00</u>	<u>-1,465.84</u>	<u>2.28%</u>
Mileage Reimbursement	0.00	500.00	-500.00	0.0%
Office Consumables & Other				
Insurance	0.00	500.00	-500.00	0.0%
Office Supplies, Postage	745.07	500.00	245.07	149.01%
Printing	92.86	1,000.00	-907.14	9.29%
Total Office Consumables & Other	<u>837.93</u>	<u>2,000.00</u>	<u>-1,162.07</u>	<u>41.9%</u>
Office Rental	1,680.00	3,000.00	-1,320.00	56.0%
Part-time	0.00	2,000.00	-2,000.00	0.0%
Professional Services	2,362.50	20,000.00	-17,637.50	11.81%
Utilities	275.59	500.00	-224.41	55.12%
Total Administrative	<u>41,148.93</u>	<u>77,800.00</u>	<u>-36,651.07</u>	<u>52.89%</u>
Total Expense	<u>41,148.93</u>	<u>77,800.00</u>	<u>-36,651.07</u>	<u>52.89%</u>
Rollover to 2007	<u><u>58,866.47</u></u>	<u><u>0.00</u></u>	<u><u>58,866.47</u></u>	<u><u>100.0%</u></u>

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 Accrual Basis

Seaside Groundwater Basin Watermaster
Budget vs. Actual
Monitoring & Management - Operations Fund
 January through December 2006

	<u>Expenses</u>	<u>Budget</u>	<u>Variance</u>	<u>% of Budget</u>
Assessment				
Monitoring & Mgmt Fund - Ops	200,000.00	200,000.00	0.00	100.0%
Total Assessment	<u>200,000.00</u>	<u>200,000.00</u>	<u>0.00</u>	<u>100.0%</u>
Total Assessment	200,000.00	200,000.00	0.00	100.0%
Expense				
Monitoring & Management - Ops				
Groundwater Modeling				
Feeney, Martin B. 2006	900.00	14,600.00	-13,700.00	6.16%
GW Modeling Consultants Travel	0.00	14,000.00	-14,000.00	0.0%
Professional Svcs M&M Ops '06	0.00	71,400.00	-71,400.00	0.0%
Total Groundwater Modeling	<u>900.00</u>	<u>100,000.00</u>	<u>-99,100.00</u>	<u>0.9%</u>
GW Resource Database				
Computer Software & Supplies	0.00	100,000.00	-100,000.00	0.0%
Total GW Resource Database	<u>0.00</u>	<u>100,000.00</u>	<u>-100,000.00</u>	<u>0.0%</u>
Total Monitoring & Management - Ops	<u>900.00</u>	<u>200,000.00</u>	<u>-199,100.00</u>	<u>0.45%</u>
Total Expense	<u>900.00</u>	<u>200,000.00</u>	<u>-199,100.00</u>	<u>0.45%</u>
Rollover to 2007	<u>199,100.00</u>	<u>0.00</u>	<u>199,100.00</u>	<u>100.0%</u>

Seaside Groundwater Basin Watermaster
Income & Expense by Fund
 January 2007

	<u>Admin</u>	<u>M&M Ops</u>	<u>M&M Cap</u>	<u>TOTAL (Memo Only)</u>
Ordinary Income/Expense				
Income				
Assessment				
Assessment				
Administrative Fund	64,018.00	0.00	0.00	64,018.00
Monitoring & Mgmt Fund - Capit	0.00	0.00	1,000,000.00	1,000,000.00
Monitoring & Mgmt Fund - Ops	0.00	200,000.00	0.00	200,000.00
Total Assessment	<u>64,018.00</u>	<u>200,000.00</u>	<u>1,000,000.00</u>	<u>1,264,018.00</u>
Rollover				
Admin Reserve Rollover	58,866.47	0.00	0.00	58,866.47
M & M Ops Reserve Rollover	0.00	199,100.00	0.00	199,100.00
Total Rollover	<u>58,866.47</u>	<u>199,100.00</u>	<u>0.00</u>	<u>257,966.47</u>
Net	<u>122,884.47</u>	<u>399,100.00</u>	<u>1,000,000.00</u>	<u>1,521,984.47</u>
Restricted Reserve	25,000.00	0.00	0.00	25,000.00
Available	<u>97,884.47</u>	<u>399,100.00</u>	<u>1,000,000.00</u>	<u>1,496,984.47</u>
Adopted Budget 2007	<u>96,000.00</u>	<u>103,280.00</u>	<u>948,000.00</u>	<u>1,147,280.00</u>
Unrestricted Available Balance	<u>1,884.47</u>	<u>295,820.00</u>	<u>52,000.00</u>	<u>349,704.47</u>

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

To: Board of Directors

From: Dewey D Evans, CEO

Date: January 17, 2007

Subject: Summary of Budget Approved Monthly Paid Requests for Payment and Recommendation on Approval of Future Requests for Payments.

Recommendation:

That the Board of Directors accepts receiving a monthly listing of approved budget items paid directly to vendors and approve future request for direct payments of bills

Comments:

Now that the Watermaster is entering into more financial activities where payments for goods and services need to be made on a timely basis this proposal suggests providing a listing at each regularly schedule monthly Board meeting of payments made during the previous month. This listing will usually be a computer printout report that automatically lists each check issued by vendor name with a brief description of what the request for payment is for, the date and the amount. I propose that we place this listing on the consent agenda at the regularly scheduled monthly Board of Directors meeting.

Only one check was issued directly by the City of Seaside from the Watermaster account during the month of December, 2006. This check was issued to Mr. Martin Feeney for a partial payment of \$900.00, for services rendered under his contact to facilitate the Seaside Groundwater Basin groundwater flow modeling program. The invoice that he submitted was for 6 hours at \$150.00 per hour for services in development of the groundwater modeling program panel, coordination of scheduling the meeting and discussions and communications with Steve Leonard and Diana Ingersoll.

I recommend that all future requests for payments be carefully analyzed, verified and signed off by the Chief Executive Officer and where appropriate by the Chair of the Technical Committee or their written designated representative. I also recommend that complete copies of the entire request for payment and the authorizing documents be retained in the office of the Watermaster and where appropriate in the City of Seaside's Finance Department. Additional recommendations for approval for handling financial activities will be requested of the Board as time and experiences warrant.

Please let me know if there are any questions regarding this matter.

Thank you.

Dewey D Evans, CEO

641-0113 office or 233-0063 cell