M E E T I N G N O T I C E AND A G E N D A

TECHNICAL ADVISORY COMMITTEE
OF THE
SEASIDE BASIN WATER MASTER

DATE: Wednesday, October 10, 2012
MEETING TIME: 1:30 p.m.
Monterey Regional Water Pollution Control Agency Offices
5 Harris Court, Building D (Ryan Ranch)
Monterey, CA 93940

If you wish to participate in the meeting from a remote location, please call in on the Watermaster Conference Line by dialing (877)810-9415. Use the Access Code of 4560043. Please note that if no telephone attendees have joined the meeting by 10 minutes after its start, the conference call will be ended.

OFFICERS
Chairperson: Eric Sabolsice, California American Water Company
Vice-Chairperson: Rob Johnson, MCWRA

MEMBERS
California American Water Company | **City of Del Rey Oaks** | **City of Monterey**
City of Sand City | **City of Seaside** | **Coastal Subarea Landowners**
Laguna Seca Property Owners | **Monterey County Water Resources Agency**
Monterey Peninsula Water Management District

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	October 10, 2012
AGENDA ITEM:	2.A
AGENDA TITLE:	Approve Minutes from September 12, 2012
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

Draft Minutes from this meeting were emailed to all TAC members. Any changes requested by TAC members have been included in the attached version.

ATTACHMENTS:	Minutes from this meeting
RECOMMENDED ACTION:	Approve the minutes

D-R-A-F-T
MINUTES

Seaside Groundwater Basin Watermaster
Technical Advisory Committee Meeting
September 12, 2012

Attendees: TAC Members

City of Seaside – Rick Riedl
California American Water – Eric Sabolsice
City of Monterey – Norm Green
Laguna Seca Property Owners – Bob Costa
MPWMD – Joe Oliver
MCWRA – Rob Johnson
City of Del Rey Oaks – Richard Simonitch
City of Sand City – Richard Simonitch
Coastal Subarea Landowners – Paul Bruno

Watermaster
Technical Program Manager - Robert Jaques
Chief Executive Officer – Dewey Evans, Laura Dadiw

Consultants
HydroMetrics – Derrik Williams

Others:
Lombardo & Associates – Dale Ellis
Daniel B. Stephens & Associates – David Abbott
Pillsbury, Winthrop, Shaw & Pittman - Scott Sommer

The meeting was called to order at 1:35 p.m.

1. **Public Comments**

There were no public comments.

2. **Administrative Matters:**

A. Approve Minutes from August 8, 2012 Meeting

With regard to Item No. 3 of the Minutes, on page 4 of the Agenda packet:

- Mr. Riedl asked for clarification of the 20 hours mentioned in the 2nd paragraph. Mr. Jaques explained that this was the estimated time it would take Mr. Lear to migrate the well data for newly identified wells compiled in his evaluation into the Watermaster's Database, so that the data would be permanently preserved in a readily accessible database.
- Mr. Riedl requested that in the 4th paragraph the first sentence be reworded to read "Mr. Riedl said he felt that more investigation of wells closest to the coast should be included in the report in order to verify that those which had been abandoned had been properly abandoned."

With this edit made, on a motion by Mr. Costa, seconded by Mr. Johnson, the minutes were unanimously approved.

B. **Election of Officers for 2013**

For the position of Chair: Mr. Johnson nominated Mr. Oliver, and the nomination was seconded by Mr. Simonitch. Mr. Oliver nominated Mr. Sabolsice, and the nomination was seconded by Mr. Costa. There were no other nominations for the position of Chair.

For the position of Vice Chair: Mr. Oliver nominated Mr. Johnson, and the nomination was seconded by Mr. Costa. Mr. Johnson nominated Mr. Sabolsice, and the nomination was seconded by Mr. Bruno.

Following brief discussion there was consensus that only one Vice Chair need be elected.

Election results were as follows: For the position of Chair three votes for Mr. Oliver, six votes for Mr. Sabolsice. With Mr. Sabolsice thus elected to the position of Chair, he noted that since he cannot serve in the positions of both Chair and Vice Chair, Mr. Johnson was elected to the position of Vice Chair by default.

There was consensus that the term of office for each of these positions should be one year.

C. Board Meting Agenda Planning

Mr. Jaques briefly discussed this item and responded to several questions.

3. Continued Discussion Regarding Request for Watermaster's Approval of Installation of Wells to Serve Proposed New Housing Development Along Highway 68

Mr. Jaques summarized the agenda packet materials for this item.

Mr. Ellis made a PowerPoint presentation (a copy of the slides are attached) on behalf of the Wang proposal. He noted that water demand would be approximately 12.9 acre feet per year for the housing units, and that the total water demand for the entire project would be approximately 16 acre feet per year. He went on to explain that water for the project would be supplied by three wells, and that sanitary sewage from the project would be piped to Pasadera where it would be treated and recycled for use on the Laguna Seca golf course. The water that would be recycled would be approximately 12.7 acre feet per year. Thus, the net groundwater demand of the project would be approximately 3.3 acre feet per year. He went on to note that natural rainfall recharge on the Wang site is approximately 10.2 acre feet per year.

Mr. Ellis said that this data showed that the Wang project would have no significant impact on the Laguna Seca subarea, even if the wells to supply water to the project were drawing from the Laguna Seca subarea, i.e. they would be below the deminimis production level as defined in the Decision.

Mr. Bruno asked if the recycled Water would recharge the Laguna Seca subarea and thus benefit the Seaside Basin, and Mr. Ellis responded yes.

Mr. Riedl asked Mr. Ellis if the Laguna Seca golf course had agreed to use the recycled water, and if the Pasadera wastewater treatment plant was capable of accepting and treating the additional flows. At this point Mr. Sabolsice asked that the TAC focus its discussion on whether the wells should be under the purview of the Watermaster, and not delve into the details and specifics of how the water would be recycled and reused.

Mr. Abbott summarized his September 5, 2012 letter which was contained in the agenda packet. He said he found that none of the additional well data from MPWMD provided new information that was helpful in determining whether or not connectivity existed between the Laguna Seca subarea and the aquifer from which the Wang subdivision wells draw. He said that cross-sections taken from the April

22, 2009 Clarke report were only hypothetical, due to a lack of data in this area. He went on to say that whether or not the Laguna Seca subarea is hydraulically connected to the Wang wells cannot be definitively determined from the available data.

Mr. Jaques asked Mr. Abbott if he could clarify an issue pertaining to one of the Conclusions on page 28 of the agenda packet in which it states that well 02-072 (the westernmost of the Wang wells) had a significant difference in groundwater elevation compared to wells to the north (the Laguna Seca subarea), but that the three other wells for the Wang subdivision had water levels nearly the same as water levels in the Laguna Seca subarea. Mr. Abbott responded that faults come in blocks and can have differing or similar water levels from one block to another. He acknowledged that it was not possible to know definitively if there was hydraulic connectivity between the Wang wells and the Laguna Seca subarea.

Mr. Green asked what data would be required in order to be able to make such a determination. Mr. Abbott responded that a string of borings in the area would be needed to provide the necessary data, but that performing such work would be very costly.

Mr. Simonitch asked Mr. Abbott if there were any wells further to the south or southeast of the Wang wells which could be clearly determined to be south or southeast of the Chupines fault. Mr. Abbott responded that he would need three data points at a minimum to define the plane of the fault, but that it could take more than just this number of wells to provide that data. He said he was not aware of any wells in this vicinity that would be helpful in making a determination.

Mr. Costa asked Mr. Ellis if the Wang wells appear to have lower water levels than those found in the Laguna Seca subarea. Mr. Abbott responded yes, based on the water level elevations generated by the GPS work that had recently been done on the Wang wells.

Mr. Sabolsice asked Mr. Oliver for his conclusion with regard to this matter. Mr. Oliver said that he concurred that there is a lack of hydrogeologic data in this area, and it is therefore not possible to definitively say whether or not there is hydraulic connectivity between the Wang wells and the Laguna Seca subarea.

Mr. Riedl commented that the Basin boundary is not clearly defined on the map contained in the Decision. Mr. Jaques reported that Mr. Oliver had obtained a higher resolution copy of the 2004 CH2M Hill Report map upon which the Decision boundary was based, and it shows that the Wang wells are outside of the Basin boundary.

Mr. Bruno noted that the issue of deminimis use is a Board matter, not a TAC issue to address.

Mr. Sommer explained that in legal parlance the term "substantial evidence" means there is adequate evidence upon which to make an informed decision. He noted that the amount of proposed water use (demand) for the Wang subdivision is low, and that there is not substantial evidence to indicate that more than a net of five acre feet per year of water would be taken from the Laguna Seca subarea even if the wells were to some extent hydraulically connected. He went on to state that it would be very costly to obtain sufficient geologic data to determine definitively whether or not the wells have any connectivity at all with the Laguna Seca subarea.

There was unanimous agreement among the TAC members that:
1. The Wang wells are outside the Basin boundary as shown on the map contained in the Decision, which was drawn to represent the Basin boundary as shown on the 1994 CH2M Hill Report map.
2. Based on the available data, it is not possible to determine whether or not hydraulic connectivity exists between the Laguna Seca subarea and the Wang wells.

Eight of the nine TAC members further agreed that the water level data suggest that the Wang wells are not hydraulically connected to the Laguna Seca subarea.

Mr. Jaques will prepare an agenda transmittal for the next Board meeting containing these findings by the TAC.

Mr. Jaques asked if the TAC members wished to include any comment or recommendations regarding the Wang subdivision having a very low water demand. Following brief discussion it was recommended by Mr. Johnson and Mr. Sabolsice that no TAC position or recommendation be made on this matter.

Note: Mr. Bruno and Mr. Simonitch had other commitments and had to depart right after Agenda Item 3.

4. Approve Scope of Work for FY 2013 Management and Monitoring Program (M&MP) and FY 2013 and 2014 M&MP Operations and Capital Budgets

Mr. Jaques summarized the agenda packet materials for this item.

Mr. Sabolsice asked Mr. Evans what the approval process would be for the Budget. Mr. Evans responded that if the TAC approved the Budget, it would go to the budget committee and then onto the board for action. In response to question from Mr. Sabolsice Mr. Evans reported that both his time and Ms. Dadiw's time is charged to the Administration Budget, not to the M&MP Budget.

Mr. Riedl asked why the Watermaster would care about water quality in the dunes sand, as described under Task I.4.b. Mr. Oliver responded that there is interest in this matter because there is uncertainty about potential migration of water between the Dunes Sand/Aromas Sand formation and the Paso Robles formation.

Following brief discussion on various other items, on a motion by Mr. Riedl, seconded by Mr. Costa, the 2013 M&MP Work Plan, the 2013 and 2014 M&MP Operations Budgets, and the 2013 and 2014 M&MP Capital Budgets were unanimously approved.

Note: Mr. Riedl had other commitments and had to depart right after Agenda Item 4.

5. Presentation of Findings from Groundwater Modeling by HydroMetrics

Mr. Williams used PowerPoint slides to present the modeling findings (copies of the slides are attached, incorporating the percent recovery correction mentioned below). He explained that he had performed two sets of simulations to address two sets of criteria TAC members felt should be considered. The two Baselines differ as to what pumping rates were used by Alternative Producers and SNG. The Projects differ in which Producers roll back to 2011 levels.

The modeling indicates that all three simulations (2009 baseline, Cal Am and TAC Project Baselines, and Cal Am and TAC projects) all come to about the same groundwater levels at the end of the simulation, which is 2031.

The percent recovery in terms of water levels indicates that all of the scenarios recovered to about the same level at the end of the simulations.

Mr. Williams explained that the intrusion rate is determined by examining the model cells closest to the coast to see changes in average velocities of water moving into or out of the cells over the full length of the simulation. Five layers were modeled, one for each subsurface formation. The average intrusion rates over the length of the model (to 2031) for the five layers all were within < 1 percent of each other.

Mr. Sabolsice asked what was learned about water levels. Mr. Williams responded that water levels were at their lowest during the 2013-2017 time period. In the Projects that had rollbacks of pumping reductions, water levels stayed lower longer.

In response to another question from Mr. Sabolsice, Mr. Williams explained that it is not possible to get up to protective water levels without an outside source of water to recharge the basin.

Mr. Sabolsice asked Mr. Williams what the impact was on the Basin as indicated by the modeling. Mr. Williams responded that the impact is lower water levels, which implies a somewhat increased risk for seawater intrusion for a short period of time. But over the length of the model (to 2031) the impact is very small.

Mr. Sabolsice recommended simplifying the presentation to the Board by presenting only the TAC Project, since the Cal Am Project has almost the same results. Mr. Johnson requested that the written report explain both Projects that were modeled, but that the presentation to the Board could be simplified as suggested by Mr. Sabolsice.

There were no requested changes to the report other than to correct the percent recovery calculation formula.

Note: Mr. Oliver had other commitments and had to depart right after Agenda Item 5. This resulted in less than a quorum being present, so no further action could be taken at the meeting.

6. Discussion of "Repayment" of Overpumped Groundwater

Mr. Sabolsice asked Mr. Evans what the schedule was for repayment of Replenishment Assessment credits - was the schedule stipulated in the Decision? Mr. Evans responded that no schedule was included in the Decision, and Mr. Jaques added that no schedule was included in the Memorandum of Understanding (MOU) between the Watermaster and Cal Am, only the term "feasible" was used in the MOU

Mr. Sabolsice suggested developing a schedule to define what "feasible" is.

Mr. Sabolsice said he would like to carry over this item, and subsequent items on today's agenda, to the October 10th TAC meeting.

Mr. Jaques noted that the October 10th meeting may be longer than usual due to a full agenda. Mr. Johnson suggested that Mr. Jaques notify TAC members by e-mail to expect a longer than normal meeting and to make all efforts to avoid making commitments that could cause them to have to leave early.

No other discussion due to lack of quorum.

Due to the lack of a quorum, the meeting adjourned at 3:34 PM

7. Schedule

No discussion due to lack of quorum.

8. Other Business

No discussion due to lack of quorum.

9. Set Next Meeting Date

No discussion due to lack of quorum. The next regular meeting will be held on Wednesday October 10, 2012 at 1:30 p.m. at the MRWPCA Board Room.

Wang Wells

Anthony Lombardo and Associates

Water Demand

* 20 Market Rate Units (0.535 x 20=10.700) : 10.700 AFY
* 9 Inclusionary Units (0.239 x 9= 2.151) : 2.151 AFY
* *Total for 29 units* : *12.851 AFY*

* Treatment Loss (12.851 x .10 = 1.285) : 1.285 AFY
* System Loss (12.851 x .07 = 0.899) : 0.899 AFY
* Misc. Use (e.g. Recreation/Open Space) : 1.000 AFY

* *Total Water Demand* *16.035 AFY*

Anthony Lombardo and Associates

Water Availability

* Water for the proposed project would be obtained from three on-site wells. All three wells have passed source capacity tests under observation from the Monterey County Environmental Health Bureau.
* The Groundwater/Hydrogeology portion of the ADEIR estimated the total stored ground water available for the project to range from approximately 540 AFY to 3,195 AFY with an estimated annual recharge of 10.2 to 34.8 AFY.
* The peer review of the ADEIR by MCWRA concluded there is a sustainable, long-term water supply for the proposed project
* The project was initially proposed to be served by septic systems. The project has been modified to be served by the waste water treatment facility for Pasadera/Laguna Seca. The reclaimed waste water will then be used for golf course irrigation with an equivalent reduction in groundwater use for irrigation of the Laguna Seca Golf Course.

Anthony Lombardo and Associates

Water Balance

* Water Demand : 16.035 AFY
* Waste Water : (12.7 AFY)
* Net Demand : 3.335 AFY

* Annual On Site Recharge (Worst Case) : 10.2 AFY

Anthony Lombardo and Associates

No Significant Impact to the LSA

- Monterey County, through the Water Resources Agency has determined there is a long term water supply.
- Monterey County, through the Environmental Health Bureau, has observed and approved source capacity tests for all three wells that could be used for the project.
- There is stored water under the Wang property to support this project for 62 years.
- There is evidence that there is little if any water transference across the Chupines fault from the LSA to the Wang property.
- The net water demand for the project is estimated at 3.335 AFY, about 1/3 of the estimated worst case annual recharge.
- It has been determined and written in the adjudication decision that any project using 5 AFY or less has a de minimis effect on the LSA.

Results of Pumping Rollback Simulations

Seaside Groundwater Basin TAC
September 12, 2012

Objectives

- Develop new baseline simulation
- Simulate rollback pumping to pre-2011 levels between 2013 and 2017
- Provide estimates of impacts from the rollback simulation.

Two Baselines and Two Projects

- All simulations use the same hydrology
- All simulations use measured pumping through June 2012
- All simulations use July 2012 through September 2011 pumping for July through September 2012 pumping
- All simulations include 1,500 acre-feet per year of SAR injection beginning in WY2013

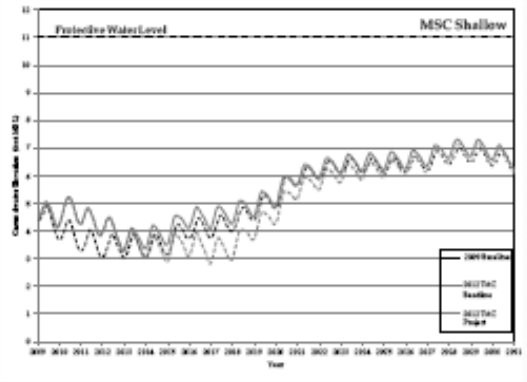
Two Baselines

	TAC	Cal-Am
Standard Producers	Adjudicated right with triennial reductions	Same
Alternative Producers	Pump at Water Year 2011 rates	Pump at their full right
SNG	Water Pumped by Cal-Am	Same, but at full right
Golf Courses	Hydrology year-specific pumping. City of Seaside provides water to Bayonet/Blackhorse after August 25, 2015	Same

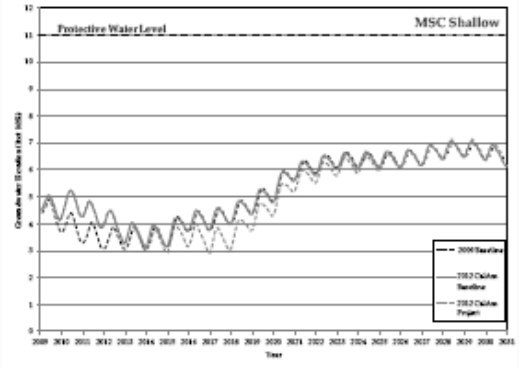
Two Projects

	TAC	Cal-Am
Standard Producers	Roll Back both Cal-Am and City of Seaside to 2011 pumping through 2017. All other standard producers pump at regular triennial reductions	Roll Back Cal-Am to 2011 pumping through 2017. All other standard producers pump at regular triennial reductions. (i.e. Seaside is the same as TAC Baseline)
Alternative Producers	Pump at Water Year 2011 rates (same as baseline)	Same as TAC (different than baseline)
SNG	Water Pumped by Cal-Am (same as baseline)	Same as TAC (different than baseline)
Golf Courses	Hydrology year-specific pumping. City of Seaside provides water to Bayonet/Blackhorse after August 25, 2015 (same as baseline)	Same as TAC (same as baseline)

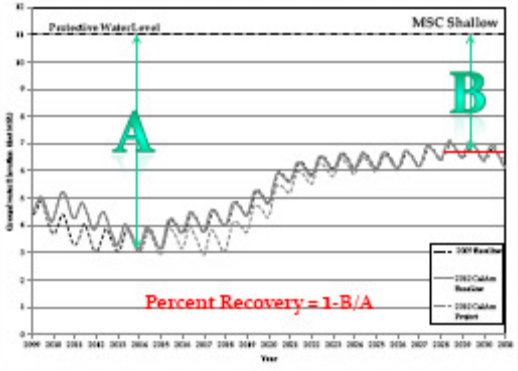
TAC Model Hydrographs



Cal-Am Model Hydrographs



Cal-Am Model Hydrographs



Percent Recovery

TAC Model

	MSCD	MSCS	PCAWD	PCAWS	Sentinal-3	MW4
% Recovery for Baseline	44%	47%	46%	100%	63%	35%
% Recovery for Project	44%	47%	46%	100%	63%	35%

Cal-Am Model

	MSCD	MSCS	PCAWD	PCAWS	Sentinal-3	MW4
% Recovery for Baseline	44%	45%	45%	100%	62%	35%
% Recovery for Project	44%	45%	45%	100%	62%	35%

Change in Intrusion Rate

TAC Model Average Intrusion Rates

Layer	Baseline	Project	% change
1	0.862	0.863	0.14%
2	0.065	0.063	-2.58%
3	0.033	0.033	-0.53%
4	0.187	0.192	2.66%
5	0.001	0.001	9.26%
Average	0.2296	0.2304	0.38%

Cal-Am Model Average Intrusion Rates

Layer	Baseline	Project	% change
1	0.864	0.863	-0.07%
2	0.058	0.063	8.29%
3	0.033	0.033	-1.73%
4	0.190	0.192	0.94%
5	0.001	0.001	5.20%
Average	0.2292	0.2303	0.47%

All intrusion rates are approximate values in feet/day

Conclusions

- Both TAC approach and Cal-Am approach have similar influences
- Project has notable impact on water levels between 2013 and 2017
- Water levels almost completely recover to baseline conditions by 2031
- Average change in intrusion rate over the 22-year simulation period is less than 1%

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	October 10, 2012
AGENDA ITEM:	2.B
AGENDA TITLE:	Administrative Update on Discussion of "Repayment" of Overpumped Groundwater
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

This item was on the September 12, 2012 TAC meeting agenda, but no quorum existed at that meeting when this agenda item came up for discussion so it was never taken up

At the Board's October 3, 2012 meeting this same topic was on the Board agenda. The Board determined that it will handle this matter without TAC involvement, so this agenda item will not occur on todays or future TAC agendas unless the Board asks for TAC involvement.

ATTACHMENTS:	None
RECOMMENDED ACTION:	None required – information only

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	October 10, 2012
AGENDA ITEM:	3
AGENDA TITLE:	Request from California American Water to Retire and Destroy Certain Wells in the Seaside Basin
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

As the August 8, 2012 letter in Attachment 1 states, Cal-Am is proposing to retire and destroy four of its wells in the Seaside Basin. Attachment 2 is the Watermaster's response letter indicating that the matter should be referred to the TAC for discussion before the Board makes a formal response to the Cal-Am letter.

Cal-Am's letter indicates that ending data-gathering from these four wells will not have an adverse impact on the Watermaster's ability to properly monitor and manage the Basin. However, informal discussions with HydroMetrics and MPWMD staff indicated that they both have concerns that losing these data sites may create a gap in the spatial distribution of water level monitoring data which in turn could reduce the accuracy of modeling and other evaluations of the Basin's water levels. During those discussions the issue of whether the Watermaster should have a formal policy and procedure regarding the retirement and destruction of wells in the Basin also arose. At least one other adjudicated basin, the San Gabriel Basin, has such a procedure (see Attachment 5). The application process appears to be only concerned with ensuring that well destruction is properly carried out, and not with any data-gathering implications of the well being destroyed.

Attachment 3 is a map from the February 2009 *Basin Management Action Plan* prepared by HydroMetrics, showing the locations of the Production and Monitoring Wells used in the preparation of that report. Many of these wells are also used by MPWMD in preparing their annual Water Quality and Water Level Reports for the Watermaster. Attachment 4 is a blowup of a portion of Attachment 3, showing more clearly the locations of three of the four wells Cal-Am proposes to retire and destroy. The fourth well, Hilby, does not show up in Attachments 3 or 4.

This item is on today's agenda so that the Watermaster's consultants that are most involved in preparing reports and analyses to help the Watermaster monitor and manage the Basin (MPWMD and HydroMetrics) can provide their input on the Cal-Am proposal, and for Cal-Am representatives, as well as other TAC members, to dialog with those consultants on what impacts, if any, there will be from the proposed loss of these wells as data-gathering sites.

If consensus is reached that the loss of these wells as data-gathering sites will be adverse to the monitoring and management of the Basin, TAC members may be able to suggest an approach that will enable Cal-Am to proceed with retiring these wells while also continuing to provide data from the vicinity of these wells sites for Basin monitoring and management purposes.

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

**** * * AGENDA TRANSMITTAL FORM * * ****

AGENDA ITEM:	3 (Continued)
ATTACHMENTS:	1. Letter from CAW regarding proposed destruction of certain wells in the Seaside Basin. 2. Letter of response sent from the Watermaster to CAW. 3. Map of well locations from 2009 Basin Management Action Plan. 4. Blowup of a portion of Attachment 3. 5. San Gabriel Basin Well Destruction Application Form
RECOMMENDED ACTION:	Provide TAC recommendations on this matter to be forwarded to the Watermaster Executive Officer

Attachment 1

CALIFORNIA
AMERICAN WATER

Eric J. Sabolsice
California American Water - Monterey
511 Forest Lodge Road, Suite 100
Pacific Grove, CA 93950
eric.sabolsice@amwater.com

P 831.646.3291
F 831.375.4367

August 8, 2012

Seaside Groundwater Basin Watermaster
2600 Garden Road Suite 228
Monterey, Ca. 93940

Re: Well Retirement and Destruction

Dear Mr. Evans,

California American Water intends to retire and destroy four of its wells located in the Coastal Subarea of the Seaside Groundwater Basin (Basin). The four wells that should be destroyed are known as Hilby MGT, Darwin, Military, and Luxton. None of these wells are used by California American Water as a source of supply for production. As such, consistent with good water utility practices, they should be destroyed, which will minimize or eliminate a conduit path of contamination into the Basin aquifer as well as liability issues associated with nonproductive wells, and will also eliminate the need to incur unnecessary costs associated with wells that merely provide duplicative data at best.

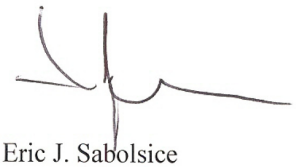
We note that the four wells are shown in Figure 2 on page 13 of the Seaside Basin Monitoring and Management Program (MMP) dated May 17, 2006 (Revised September 5, 2006). Under the MMP, Hillby MGT and Luxton would be considered inland monitoring wells and Military and Darwin would be considered inactive production wells. The MMP contains a monitoring protocol for wells in the Basin but does not prohibit wells from being retired and destroyed.

Retirement and destruction of the four wells will not impact the MMP's Comprehensive Basin Production, Water Level and Water Quality Program. Under the MMP, only water level data is to be obtained from these wells – quarterly from the inland monitoring wells and monthly from the inactive production wells. The infrequent water level data provided by these wells is unnecessary. There are multiple remaining wells in the Coastal Subarea that will provide the same water level data for the groundwater resource database.

California American Water does not believe retirement and destruction of the four wells would contravene either the Amended Decision or the MMP. Before proceeding, however, we wanted to provide the Watermaster with an opportunity to raise any questions or concerns with our plans. If desired, I would be happy to discuss this matter with the Watermaster TAC.

If we do not hear from you by September 8, 2012, we will begin the process of retiring and destroying the wells.

Regards,



Eric J. Sabolsice
Director, Operations
Coastal Division
California American Water

Attachment 2

SEASIDE GROUNDWATER BASIN WATERMASTER

2600 Garden Road, Suite 228, Monterey, CA 93940
(831) 641-0113

September 4, 2012

Eric Sabolsice
California American Water – Monterey
511 Forest Lodge Road, Suite 100
Pacific Grove, CA 93950

Re: Well Retirement and Destruction

Dear Mr. Sabolsice,

This letter is in response to your correspondence dated August 8, 2012 on the above referenced matter.

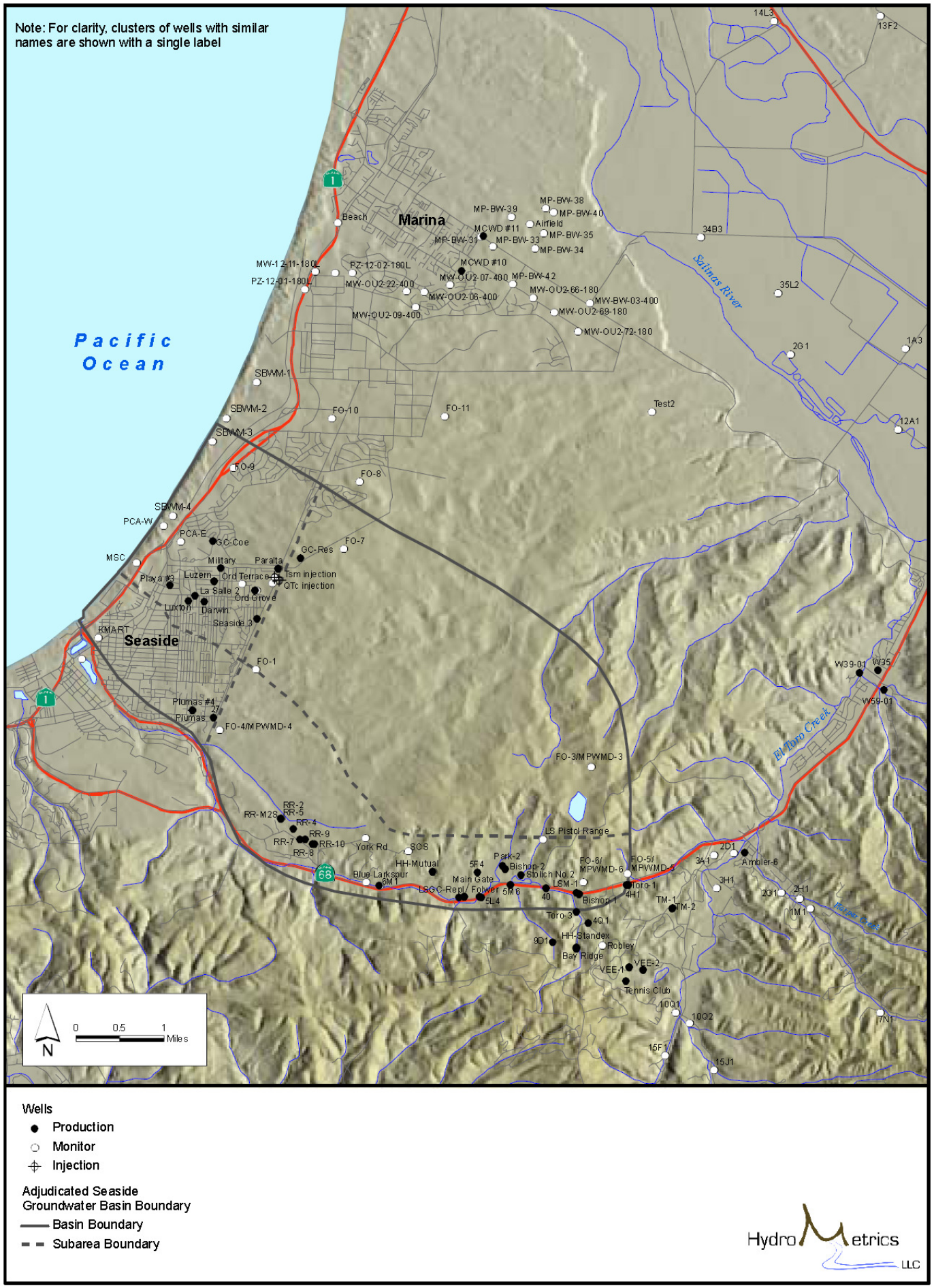
Please do not proceed with destruction of the Hilby MGT, Darwin, Military, and Luxton wells located within the Coastal Subarea of the Seaside Groundwater Basin until the issue can be considered further by Watermaster. Staff believes that a formal well destruction process within the Watermaster Rules and Regulations may be in order. Moreover, it is appropriate for this issue to be addressed at a Watermaster TAC meeting to consider implications of the retirement and destruction of the four wells on data collection within the Basin.

Please call me if you would like to discuss this response further.

Sincerely,

Dewey D. Evans
Chief Executive Officer

Attachment 3



Attachment 4

Attachment 5

Mailing Address:
725 North Azusa Ave.
Azusa, CA 91702

MAIN SAN GABRIEL BASIN WATERMASTER
SUPERIOR COURT CASE NO. 924128-LOS ANGELES COUNTY

(State Well Number)

(Recordation Number)

(Owner's Designation)

APPLICATION TO DESTROY WELL

(1) APPLICANT:
Name_____
Address_____
_____

(2) LOCATION OF WELL:
Well Address: _____
*Township, Range, and Section*_____
*Thomas Brothers Guide (Please indicate year, page number and coordinates.)*_____
_____
*Assessor's Parcel No.*_____
(Please attach copy of a map or sketch showing well location relative to streets or other major landmarks.)

(3) NAME OF WELL DRILLING CONTRACTOR:_____
_____

(4) PURPOSE FOR DESTROYING WELL
Water Quality ( ) Physical ( )
Other ( )_____

(5) CURRENT USE:
Municipal ( ) Irrigation ( )
Domestic ( ) Industrial ( )
Water Quality Cleanup ( )
Other ( )_____

(6) EXISTING CASING INSTALLED:
STEEL ( ) PLASTIC ( )
OTHER ( )

Gravel Packed:
Yes ( ) No ( ) Size_____

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	Packed From ft.	Packed To ft.

Size of shoe or well ring:
_____
Describe joint_____

(7) EXISTING PERFORATIONS OR SCREEN:
Type of perforation or size of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Slot Size

(8) CONSTRUCTION:
Was a surface sanitary seal provided? Yes ( ) No ( )
To what depth? _____ft.
Were any strata sealed against pollution? Yes ( ) No ( )
If yes, note depth of strata
from _____ft. to _____ft.
from _____ft. to _____ft.
Method of sealing_____

(9) WELL LOG: (Please provide a copy of well log.)
Total depth _____ft. Depth of completed well _____ft.
Formation: *Describe by color, character, size of material and structure if well log cannot be provided.*
_____ft. to _____ft._____
_____

(10) METHOD OF DESTROYING: (Please provide an explanation of how the well is to be destroyed including drawings showing the proposed method of destroying. Please provide copy of County of Los Angeles permits and State Department of Water Resources Water Well Drillers reports and any other permits for destruction of well following destruction of the well.)
_____
_____
_____
_____
_____

I hereby agree to comply with all regulations of the Main San Gabriel Basin Watermaster pertaining to well construction, operation, repair, modification, destruction and inactivation. The Applicant will notify the Watermaster upon completion of well destruction.

Submitted for Applicant by:_____
_____

Signature:_____

Title:_____

Date:_____

Date Received by Watermaster:_____

Watermaster Action:
Approved ( ) Denied ( )

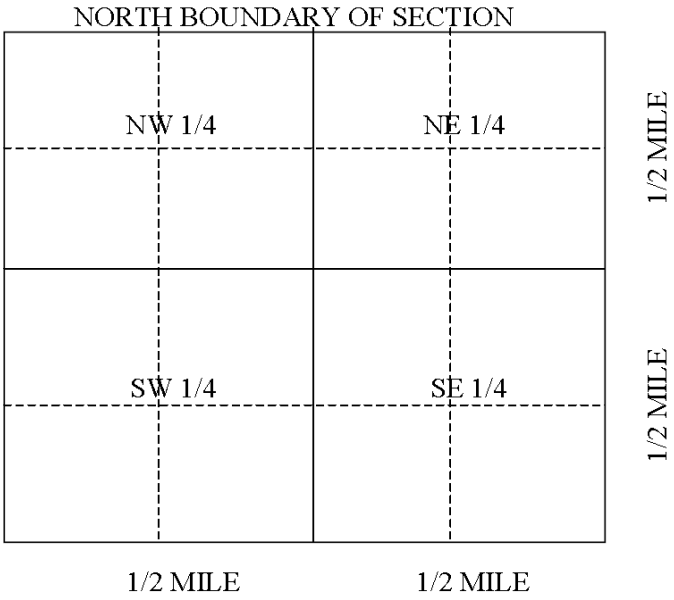
Date of Action:_____

Permit Number:_____

By:_____
(Name)
_____
(Title)

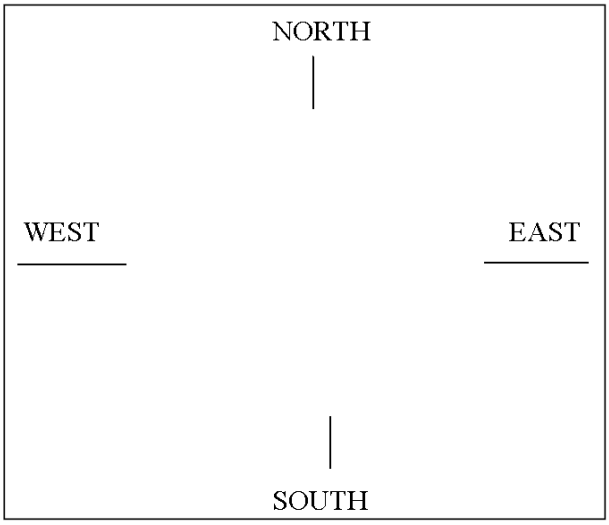
Form No. RR 28-03 – 08/00

WELL LOCATION SKETCH



Township _____ N/S
Range_____E/W
Section No._____

A. Location of well in sectionized areas.
Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized.
Sketch roads, railroads, streams, or other features as necessary. Indicate distances.

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE
** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	October 10, 2012
AGENDA ITEM:	4
AGENDA TITLE:	Initial Consultant Contracts for FY 2013: A. MPWMD RFS No. 2013-01 B. MPWMD RFS No. 2013-02 C. HydroMetrics RFS No. 2013-01 D. HydroMetrics RFS No. 2013-02
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY: Attached are the proposed initial contracts for each of the Watermaster's consultants that are expected to work on M&MP activities during 2013. Each of these firms is currently working under a master form of agreement with the Watermaster called a "Professional Services Agreement" (PSA). Actual work assignments are made through the issuance of Requests for Service (RFS) under the umbrella language of the PSA. The attached RFSs constitute the proposed initial 2013 work assignments for MPWMD and HydroMetrics as follows:

- MPWMD RFS No. 2013-01 covering their normal M&MP tasks as in preceding years, as well as the additional M&MP work items approved by the TAC at its September 12, 2012 meeting.
- MPWMD RFS No. 2013-02 covering their obtaining water quality and water level data from private producers who ask the Watermaster collect this data for them. The costs for this work are reimbursed by the private producers, and there is no net cost to the Watermaster for work performed under this RFS.
- HydroMetrics RFS No. 2013-01 covering their providing general hydrogeologic consulting services.
- HydroMetrics RFS No. 2013-02 covering their preparing the 2013 SIAR.

These consultants are performing a final review of the cost and scope details of these proposed contracts, and may have some final edits to propose to them at today's TAC meeting (some items highlighted in color).

If requested by the TAC, I will develop additional RFSs for HydroMetrics during 2013 to perform further groundwater modeling, to refine protective water levels, and/or to update the BMAP. These are shown as unscheduled tasks in the proposed 2013 Work Schedule in Agenda Item No. 6.

These contracts are on today's TAC meeting agenda to provide the TAC with the opportunity to raise questions or make suggestions for changes to the scopes-of-work or costs, before they are presented to the Board for approval at the Board's November 2012 meeting, to ensure the contacts can be in effect at the start of 2013.

ATTACHMENTS:	4 - Proposed Consultant Contracts for FY 2013 (2 -MPWMD & 2-HydroMetrics)
RECOMMENDED ACTION:	Discuss and either modify or approve the proposed contracts

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: January 1, 2013 **RFS NO.** 2013-01 .
(To be filled in by WATERMASTER)

TO: Joe Oliver **FROM**: Robert Jaques .
Monterey Peninsula Water Management District WATERMASTER
PROFESSIONAL

Services Needed and Purpose:
Perform certain Tasks contained within the Watermaster's Monitoring and Management Plan for 2013 (See detailed Scope of Work in Attachment 1).

Completion Date: The work of this RFS No. 2013-01 shall be completed in accordance with the schedule contained in Attachment 2.

Method of Compensation: Time and Expense Payment Method (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: $ 83,970.00 (See Attachment 3 for a Breakdown of this Total Price. Cost is authorized only when evidenced by signature below.)

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by: _____ Date:_____.
WATERMASTER Technical Program Manager

Authorized by: _____ Date:_____.
WATERMASTER Chief Executive Officer

Agreed to by: _____ Date:_____.
PROFESSIONAL

ATTACHMENT 1

Detailed Scope of Work for RFS No. 2013-01

Background:

The Watermaster Board approved the Budget for the 2013 Management and Monitoring Program Work Plan (hereinafter referred to as the "2013 M&MP Work Plan") at its meeting of October 3, 2012.

This RFS No. 2013-01 authorizes PROFESSIONAL to perform certain work on certain of the Tasks described in the 2013 M&MP Work Plan. The Task numbers listed in Table 1 of this Detailed Scope of Work for RFS No. 2013-01 correspond to the Task numbers in the 2013 M&MP Work Plan.

Table 1

M&MP TASK NO.	TASK DESCRIPTION	WORK TO BE PERFORMED
I. 2. a.1	Conduct ongoing data entry/ database maintenance	PROFESSIONAL will perform water production, water level, and water quality data entry into WATERMASTER's database, and data editing as necessary, and will provide appropriate quality control and quality assurance for this data. Upon request from WATERMASTER, PROFESSIONAL will also enter other data into the database, such as updated information pertaining to well records. WATERMASTER will provide PROFESSIONAL with water production data. PROFESSIONAL will review the water production data provided by WATERMASTER for quality assurance and quality control purposes, and will notify WATERMASTER of any discrepancies PROFESSIONAL observes in this data. WATERMASTER will followup as appropriate with the water producers to resolve any such discrepancies. PROFESSIONAL will also host and maintain the Watermaster's Database. Any changes to WATERMASTER's database will be authorized under a separate agreement for performing such work for WATERMASTER. That agreement will either be with PROFESSIONAL or with another consultant. PROFESSIONAL will prepare quarterly water production, water level, and water quality tabulations in Excel format and will provide those tabulations to another WATERMASTER Consultant who will post them to the WATERMASTER's website, so it will be accessible to the public and other interested parties.

M&MP TASK NO.	TASK DESCRIPTION	WORK TO BE PERFORMED
I. 2. b. 2	Collect Monthly Water Levels	The monitoring wells from which water level data is to be collected by PROFESSIONAL are listed under the heading "MONITORING TO BE PERFORMED BY PROFESSIONAL" in the column titled "Level" in Table 2. PROFESSIONAL will visit each of the indicated wells at the frequencies shown in Table 2 in order to obtain the water level data. At these visits PROFESSIONAL will measure and record water levels by either taking manual water levels using an electric sounder, or by dataloggers. Dataloggers which have been installed on the four Coastal Sentinel, the four ASR monitoring, and the inland (BLM site) monitoring wells will be used to measure the levels at those wells. Pursuant to Section 4(a) on page 9 of the Management and Monitoring Plan approved by the Court on September 25, 2006, in 2013 wells at 2 additional sites in the Laguna Seca Subarea will be equipped with dataloggers taking measurements in two aquifers at each site. The cost included in this Task for equipping these additional wells is $1,200/site x 2 sites = $2,400. Also included in the cost for this Task is the purchase of one replacement datalogger @ $500. All of the other wells will be manually measured.

M&MP TASK NO.	TASK DESCRIPTION	WORK TO BE PERFORMED
I. 2. b. 3	Collect Quarterly Water Quality Samples	The monitoring wells from which water quality data is to be collected by PROFESSIONAL are listed under the heading "MONITORING TO BE PERFORMED BY PROFESSIONAL" in the column titled "Quality" in Table 2. PROFESSIONAL will visit each of the indicated wells at the frequencies shown in Table 2 in order to obtain the water quality samples, and will perform water quality analyses on these samples. The water quality constituents that will measured in these analyses are: Specific Conductance (micromhos/cm), Total Alkalinity (as $CaCO_3$), pH, Chloride, Sulfate, Ammonia Nitrogen (as NH_3), Nitrate Nitrogen (as NO_3), Total Organic Carbon, Calcium, Sodium, Magnesium, Potassium, Iron, Manganese, Orthophosphate, Total Dissolved Solids, Hardness (as $CaC0_3$), Boron, Bromide, and Fluoride. For the following wells listed in Table 2, Barium and Iodide will also be measured annually: SBWM MW-1 Deep (from two discrete depth zones), SBWM MW-2 Deep (from two discrete depth zones), SBWM MW-3 Deep (from two discrete depth zones), SBWM MW-4 Deep (from two discrete depth zones), MSC Shallow, MSC Deep, PCA-W Shallow, PCA-W Deep, MPWMD #FO-09 Shallow, and MPWMD #FO-09 Deep. The data may either come from water quality samples that are collected by the airlift method, by the positive displacement method during induction logging of these wells and/or other data gathering techniques, or combinations of these methods, at the discretion of PROFESSIONAL, and will be submitted to a State-certified analytical laboratory for analysis. Under this Task, PROFESSIONAL will complete retrofitting the wells that are sampled on an annual basis to use the new low-flow purge approach for getting water quality samples. The wells that are sampled quarterly have previously been retrofitted, and all except two of the wells that are sampled annually have been retrofitted. These two wells are FO-9 (Shallow) and FO-9 (Deep). The cost included in this Task to retrofit these two wells in 2013 is $1,500. The dedicated devices sit in the water column and may periodically need to be replaced or repaired. A not-to-exceed amount of $500 is included in the costs contained in Attachment 3 for performing ongoing maintenance and/or replacement of the sample collection equipment.

M&MP TASK NO.	TASK DESCRIPTION	WORK TO BE PERFORMED
I. 2. b. 6	Reports	PROFESSIONAL will prepare and submit reports to WATERMASTER summarizing and analyzing the data that is collected, according to the following schedule: 1. One combined report summarizing the water production data and summarizing and analyzing the water quality and water level data from the 1st & 2nd Quarters of the Water Year. 2. One annual report summarizing the water production data and summarizing and analyzing the water quality and water level data from the 3rd & 4th Quarters of the Water Year, and containing tables consolidating the data from the quarterly reports and a narrative summarization of the findings, conclusions, and recommendations from the quarterly reports. This annual report may include, as attachments, each of the quarterly reports.
I.3.d	Evaluate Coastal Wells for Cross-Aquifer Contamination Potential	The work of this Task was essentially completed under RFS No. 2011-01. The only work associated with this Task to be performed in 2013 under this RFS No. 2013-01 is to incorporate into the Watermaster's Database data from wells that were newly identified by the work performed under RFS 2011-01.
I. 4. a	Review Seawater Intrusion Analyses	WATERMASTER will have another consultant perform analyses and prepare mapping and other documents pertaining to seawater intrusion detection. PROFESSIONAL will participate in meetings with that consultant during the course of its work, and will provide review comments and recommendations to WATERMASTER regarding this work as it is being carried out by that consultant.
I.4.b	Focused Hydrogeologic Investigation	PROFESSIONAL will compile historical and current water quality data in the coastal area to provide more in-depth evaluation of conditions in the shallow Dune Sand/Aromas Sand aquifer in the vicinity of the Sand City Public Works well, where unique water quality conditions and variability have recently been observed. The results of this work will be summarized in a brief Technical Memorandum with conclusions and recommendations.

Table 2

WELL NAME AND SUBAREA LOCATION[8]	MONITORING NETWORK[1]		MONITORING REQUIRED BY DECISION[2]		MONITORING CURRENTLY BEING PERFORMED BY PROFESSIONAL NOT SUBJECT TO THIS RFS[3]		MONITORING TO BE PERFORMED BY PROFESSIONAL UNDER THIS RFS[4]			
					Level		Level		Quality	
					Frequency		Frequency		Frequency	
	Professional's	Watermaster's	Level (Monthly)	Quality (Annually)	Monthly	Quarterly	Monthly	Quarterly	Annually	Quarterly
Northern Coastal Subarea (and vicinity)										
MSC-Shallow		X					X			X
MSC-Deep		X					X			X
PCA-W Shallow		X						X		X
PCA-W Deep		X						X		X
PCA-E (Multiple) Shallow	X				X				X	
PCA-E (Multiple) Deep	X				X				X	
Ord Grove Test-Shallow/Deep	X				X					
Paralta Test-Shallow/Deep	X				X					
Ord Terrace-Shallow	X				X				X	
Ord Terrace-Deep	X				X				X	
MPWMD #FO-09-Shallow	X				X					X
MPWMD #FO-09-Deep	X				X					X
MPWMD #FO-10-Shallow		X					X		X	
MPWMD #FO-10-Deep		X					X		X	
Fort Ord Monitor MW-B-23-180-Dune/Aromas		X					X		X	
CDM MW-1-Dune/Aromas		X					X			
CDM MW-2-Dune/Aromas		X					X			
CAW Del Monte Observation-Shallow		X							X	
SBWM MW-1-Deep (Purisima)[6]		X						X	X	
SBWM MW-2-Deep (Purisima)[6]		X						X	X	
SBWM MW-3-Deep (Purisima)[6]		X						X	X	
SBWM MW-4-Deep (Purisima/Santa Margarita)[6]		X						X	X	
Northern Inland Subarea (and vicinity)										
MPWMD #FO-01-Shallow	X					X				
MPWMD #FO-01-Deep	X					X				
MPWMD #FO-07-Shallow	X					X				
MPWMD #FO-07-Deep	X					X				
MPWMD #FO-08-Shallow	X					X				
MPWMD #FO-08-Deep	X					X				
MPWMD #FO-11-Shallow	X					X				
MPWMD #FO-11-Deep	X					X				
SBWM MW-5-Shallow (Paso Robles)[6]		X						X	X	
SBWM MW-5-Deep (Santa Margarita)[6]		X						X	X	

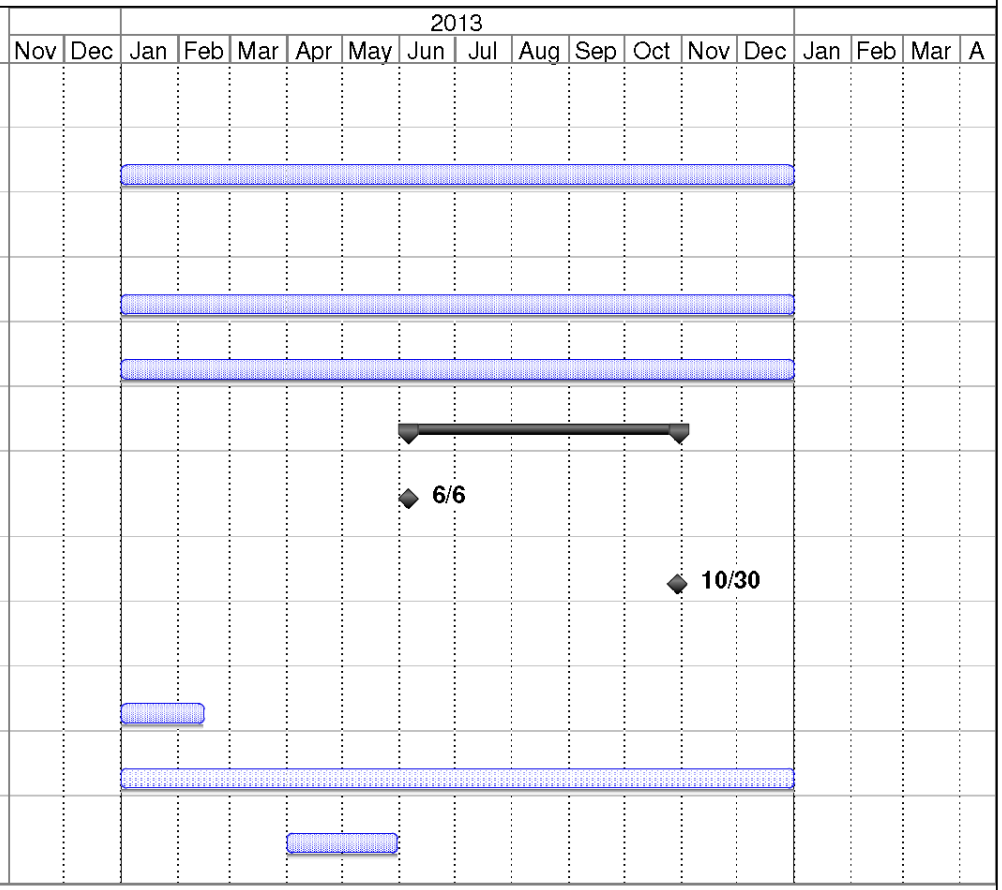
Table 2 (Continued)

WELL NAME AND SUBAREA LOCATION[8]	MONITORING NETWORK[1]		MONITORING REQUIRED BY DECISION[2]		MONITORING CURRENTLY BEING PERFORMED BY PROFESSIONAL NOT SUBJECT TO THIS RFS[3]		MONITORING TO BE PERFORMED BY PROFESSIONAL UNDER THIS RFS[4]			
					Level Frequency		Level Frequency		Quality Frequency	
	Professional's	Watermaster's	Level (Monthly)	Quality (Annually)	Monthly	Quarterly	Monthly	Quarterly	Annually	Quarterly
Southern Coastal Subarea (and vicinity)										
Plumas '90 Test-Deep		X					X			
K-Mart-Dune/Aromas		X					X			
CDM MW-3-Dune/Aromas		X					X			
CDM MW-4-Dune/Aromas		X					X			
MW-BW-08A-Dune/Aromas		X					X			
MW-BW-09-180-Shallow		X					X			
Laguna Seca Subarea (and vicinity)										
MPWMD #FO-03-Shallow	X					X				
MPWMD #FO-03-Deep	X					X				
MPWMD #FO-04-Shallow (E)	X					X				
MPWMD #FO-04-Deep (W)	X					X				
MPWMD #FO-05-Shallow	X					X				
MPWMD #FO-05-Deep	X					X				
MPWMD #FO-06-Shallow	X					X				
MPWMD #FO-06-Deep	X					X				
Justin Court (RR M2S)-Shallow	X					X				
LS Pistol Range (Mo Co TH-1)-Deep	X					X				
York Rd-West (Mo Co MW-1 D)-Deep	X					X				
Seca Place (Mo Co MW-2)-Deep	X					X				
Robley Shallow (North) (Mo Co MW-3S)-Shallow	X					X				
Robley Deep (South) (Mo Co MW-3D)-Deep	X					X				
LS No. 1 Subdivision-Deep	X					X				
Blue Larkspur-East End-Believed to be Deep	X					X				
York School-Shallow		X	X						X	
Laguna Seca Driving Range (SCS-Deep)-Shallow		X						X	X	
Laguna Seca County Park #2-Shallow		X	X						X	
CAW Granite Construction-Deep		X					X			
CAW Ryan Ranch (RR) #7-Deep		X	X						X	
Laguna Seca Golf New #12-Deep[9]		X							X	
Pasadera Main Gate-Deep		X	X						X	
No. of Wells in Each Network[5]=	32	29	4	0	8	24	14	9	20	6

Notes:
(1) The wells within the Professional's Monitoring Well Network are the wells that PROFESSIONAL monitors as part of PROFESSIONAL's own monitoring program. The wells within the Watermaster's Monitoring Well Network are the wells to be monitored under this RFS.
(2) Monitoring required by the Decision is the monitoring described in the Monitoring and Management Program which was incorporated by reference in the Decision of the Court dated February 9, 2007.
(3) Monitoring currently being performed by PROFESSIONAL not subject to this RFS is monitoring work PROFESSIONAL is performing under other monitoring programs. This monitoring is not a part of this RFS.
(4) Monitoring to be performed by PROFESSIONAL is the monitoring to be performed under this RFS.
(5) The Watermaster's Monitoring Well Network includes the wells recommended in the Enhanced Monitoring Well Network report prepared by PROFESSIONAL, dated October 23, 2007, plus the 4 new Sentinel Wells installed in 2007 and the BLM well installed in 2011.
(6) The Seaside Basin Watermaster (SBWM) wells are all equipped with dataloggers that obtain measurements at least daily, but will be manually sounded for water level on a quarterly basis for calibration purposes. SBWM MW-4 Deep is to be sampled for water quality semi-annually.
(7) Not used.
(8) Shallow=Paso Robles; Deep=Santa Margarita or Purisima.
(9) This well is so close to the Laguna Seca Old No. 12 well that no water level monitoring is necessary.
(10) CAW East Fence Shallow well can no longer be sampled and was therefore dropped from this list.

MPWMD RFS No. 2013-01
Work Schedule

ID	Task Name
1	**I.2.a DATABASE MANAGEMENT**
2	**I.2.a.1 Conduct Ongoing Data Entry/Database Maintenance (MPWMD)**
3	**I.2.b DATA COLLECTION PROGRAM**
4	**I.2.b.2 Collect Monthly Water Levels (MPWMD)**
5	**I.2.b.3 Collect Quarterly Water Quality Samples (MPWMD)**
6	**I.2.b.6 Reports (from MPWMD)**
7	MPWMD Prepares Combined Quarterly Water Production, Water Level, and Water Quality Reports for 1st & 2nd Quarters
8	MPWMD Prepares Annual Water Production, Water Level, and Water Quality Report
9	**I.3.d Evaluate Coastal Wells for Cross-Aquifer Contamination Potential**
10	MPWMD Migrates Well Data from Newly Identified Wells into Watermaster's Database
11	**I.4.a HydroMetrics & MPWMD Provide Oversight of Seawater Intrusion Detection and Tracking**
12	**I.4.b MPWMD Performs Focused Hydrogeologic Investigation in Vicinity of Sand City Public Works Well**



ATTACHMENT 3 SUMMARY OF ESTIMATED COSTS

M&MP TASK NO.	LABOR HOURS		HOURLY	SUPPLIES AND MATERIALS		TOTAL
	BREAKDOWN	TOTAL	RATE	BREAKDOWN	TOTAL	
I. 2. a. 1	12 mo. @ 8 hrs/mo.	96	$94	Other services needed to host and maintain Watermaster's Database, estimate $300 for the year.	$300	$9,324
I. 2. b. 2.	12 mo. @ 4 hrs/mo.	48	$87	Equip 4 LSS wells (2 sites) with dataloggers @ $1200/site x 2 = $2400; plus 1 replacement datalogger @ $500	$2,900	$7,076
I. 2. b. 3.	Quarterly WQ wells (Table 2): MPWMD Coastal wells (6 wells - shallow and deep aquifers @ 3 sites: MSC, PCA-W, FO-09), plus one additional quarterly WQ well sample. Labor: 4 events @ 16 hrs/event	64	$87	Fuel: 4 events @ $10/site x 3 sites = $120; Lab costs: 4 events @ $250/well x 7 wells = $7000	$7,120	$12,688
	Annual WQ wells (Table 2): 1 event @ 28 hrs/event = 28 hrs	28	$87	Eductor setup for BLM well site (use MPWMD portable unit): $0 x 1 site = $0; Airlift equip.: $100 x 1 site x 1 event = $100; Fuel: $20 x 1 site x 1 event = $20; Lab cost (annual WQ wells): $250 x 15 wells x 1 event = $3,750; One-time perm. pump retrofit, and maintenance on previously installed sample collection equipment: $1500 + $500 = $2000	$5,870	$8,306
	WM Sentinel and Northern Inland wells: download/store dataloggers, 4 events @ 2 hrs/event	8	$87	N/A	$0	$696
	WM Sentinel wells: Semi-annual induction logging -- all 4 sites; annual WQ samples from each aquifer at each site (2 per well site) -- all 4 sites; semi-annual WQ samples -- SBWM MW-4 site only. Total labor = 2 events @ 4 hr/event.	8	$87	Induction logging: 2 events = $15,500; Lab cost (annual samples): $250 x 4 sites x 2 samples = $2,000; Lab cost (semi-annual sampling @ SBWM MW-4 site only): $250 x 1 site x 2 samples = $500	$18,000	$18,696
	Compile data: 4 events @ 24 hours/event	96	$87	N/A	$0	$8,352
I. 2. b. 6	1 - combined Q1 and Q2 quarterly report @ 18 hrs	18	$94	N/A	$0	$1,692
	1- annual report @ 24 hrs	24	$94	N/A	$0	$2,256
I.3.d	Append coastal well records from cross-aquifer contamination study to Watermaster's Database	50	$94	N/A	$0	$4,700
I. 4. a	Provide SWI supplemental data and review	24	$111	N/A	$0	$2,664
I. 4. b	Provide focused area hydrogeologic investigation for Sand City Public Works Well	80	$94	N/A	$0	$7,520

TOTAL ESTIMATED COST = $83,970

Notes:

1. Vehicle mileage is included in the labor costs above.
2. Regardless of the use of the term "Estimated Cost" in this RFS, if the work of this RFS is to be compensated for using Lump Sum Payment method, it is understood and agreed to by PROFESSIONAL that the Total Price listed on page A-1 of this RFS is binding and limiting as defined in Section V of the Agreement.

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: January 1, 2013 **RFS NO.** 2013-02 .
(To be filled in by WATERMASTER)

TO: Joe Oliver **FROM**: Robert Jaques .
Monterey Peninsula Water Management District WATERMASTER
PROFESSIONAL

Services Needed and Purpose:
Perform water level and water quality data collection for specified wells within the Seaside Basin in accordance with the Scope of Work contained in Attachment 1.

Completion Date: The work of this RFS No. 2013-02 shall be completed on an as-directed basis from the Watermaster during 2013. All work under this RFS will be completed not later than December 31, 2013.

Method of Compensation: Time and Expense Payment Method (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: $5,154.00 (See Attachment 1 for details regarding this Total Price, and how costs will be authorized on an as-directed basis. Cost is authorized only when evidenced by signature below.)

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by: _____ Date:_____.
WATERMASTER Technical Program Manager

Authorized by: _____ Date:_____.
WATERMASTER Chief Executive Officer

Agreed to by: _____ Date:_____.
PROFESSIONAL

ATTACHMENT 1
Scope of Work for RFS No. 2013-02

Background:

The WATERMASTER Board authorized its staff to contract with the PROFESSIONAL to collect water level and water quality data from certain wells located within the Seaside Basin, if the owners/operators of those wells expressed this desire to the WATERMASTER. The procedures for this data collection are described in the January 17, 2008 "Notice to Well Owners" that was sent out by the Watermaster to well owners in the Seaside Groundwater Basin..

This RFS No. 2013-02 authorizes PROFESSIONAL to perform this data collection work on an as-directed basis, with formal authorization from the WATERMASTER to the PROFESSIONAL being required prior to the PROFESSIONAL performing such work on any specified well. This will provide the WATERMASTER with full control over which wells are provided this service, as well as over the costs for having this work performed.

The wells to which these services may be provided are listed in Table 1.

The estimated costs, per well, to perform these services are as follows:

Monthly Water Levels - It is estimated that it will take approximately 0.5 hour/well to perform a water level measurement. This time estimate is based on the assumption that the water level measurements will be performed at the time that a field person is already out and about collecting data from other wells, and the fact that the distance between wells located within the Basin is not that great. This labor would be billed at the field rate of $87/hr, so the estimated cost per water level measurement would be $43.50.

The total estimated cost would be $522 per year per well for 12 monthly measurements.

Annual Water Quality Sampling - Assuming that annual water sample collection would coincide with water level collection at a well, it is estimated that it will take approximately 0.5 hr to collect the water quality sample, including sampling time, bottle labeling, custody forms, delivery to laboratory, etc. There will also be an estimated 0.5 hr for receipt, review and computer entry of laboratory data, and an estimated $250 per sample for the laboratory analysis. The sampling work would be billed at the field rate of $87/hr, so the estimated cost per annual water quality sample would be $87 for labor, and $250 for laboratory services, for a total cost per sample of $337. Only one sample per well will need to be collected and analyzed in 2013. This sample will be collected in the fall of 2013.

The total estimated cost for collecting and analyzing the sample per well is $337.

Combined Water Level Measurements and Water Quality Sampling: For combined water level and water quality monitoring, the total estimated cost, per well, for the 12-month period is $859.

Of the wells listed in Table 1 it is assumed that not more that 6 will ask to have data collected for them by the WATERMASTER, the total estimated cost would be:

Potential No. of Wells Needing Water Level Data Collected	= 6 @ $522 =	$3,132
Potential No. of Wells Needing Water Quality Data Collected	= 6 @ $337 =	$2,022
	TOTAL =	$5,154

Table 1

APN	DETAILS	COMPANY	Watermaster "Producer" Well?	MPWMD Assigned Well #	Monthly Water Levels Required	Monthly Water Levels Being Collected?	Annual Water Quality Analyses Required?	Annual Water Quality Data Being Collected?
Within MPWMD Boundaries								
012-432-004	CAW - Plumas #4	California American Water Co.	Y	T15S/R1E-27Jg	Y	Y	Y	N
012-843-013	CAW - Darwin	California American Water Co.	Y	T15S/R1E-23Ea	Y	Y	Y	N
011-041-018	CAW - Military	California American Water Co.	Y	T15S/R1E-14Nd	Y	Y	Y	N
011-061-004	CAW - Ord Grove #2	California American Water Co.	Y	T15S/R1E-23Bc	Y	Y	Y	N
011-071-018	CAW - New Luzern	California American Water Co.	Y	T15S/R1E-23De	Y	Y	Y	N
011-091-017	CAW - Playa #3	California American Water Co.	Y	T15S/R1E-22Bc	Y	Y	Y	N
011-091-017	CAW - Playa #4	California American Water Co.	Y	T15S/R1E-22Bf	Y	Y	N	
011-493-028	CAW - Paralta	California American Water Co.	Y	T15S/R1E-14Ra	Y	Y	Y	N
031-151-010	Reservoir Well	City of Seaside	Y	T15S/R1E-13Na	Y	?	Y	N
031-231-062	Coe Avenue Well	City of Seaside	Y	T15S/R1E-14Ma	Y	?	Y	N
011-181-014	Public Works Corp. Yard	City of Sand City	Y	T15S/R1E-22Ed	Y	?	Y	N
011-011-020	Cypress Pacific	Monterey Peninsula Engineering	Y	T15S/R1E-22Dd	Y	N	Y	N
011-236-010	Robinette -Design Ctr.	City of Sand City	Y	T15S/R1E-22Mc	Y	?	Y	N
011-041-043	(In front of Target)	DBO Development	Y	T15S/R1E-22Ce	Y	N	N	
011-061-022	MMP prod well	Mission Memorial Park	Y	T15S/R1E-23Ab	Y	Y	N	
011-061-022	PRTIW -operated by MMP	Mission Memorial Park	Y	T15S/R1E-23Ac	Y	N	Y	N
011-501-014-500		Security National Guaranty, Inc.	Y	T15S/R1E-15K1	Y	N	Y	N
011-532-005		Granite Rock Company	Y	T15S/R1E-22Eb	Y	?	N	
012-511-005	Shea Well	City of Del Rey Oaks	Y	T15S/R1E-26Mc	Y	N	N	
012-115-017	City #4	Seaside Municipal Water System	Y	T15S/R1E-23Gc	Y	?	Y	?
012-653-003	City #2	Seaside Municipal Water System	Y	T15S/R1E-23Pb	Y	?	N	
012-664-017	City #1	Seaside Municipal Water System	Y	T15S/R1E-23Lb	Y	?	N	
012-115-017	City #3	Seaside Municipal Water System	Y	T15S/R1E-23Ga	Y	?	Y	?
173-071-052	East Well (Lot #9)	CAW - Bishop Unit	Y	T16S/R2E-05Fa	Y	N	N	
173-072-034	well lot Bishop #1 (west)	CAW - Bishop Unit	Y	T16S/R2E-05Ea	Y	Y	N	
173-072-041	well lot Bishop #2 (east)	CAW - Bishop Unit	Y	T16S/R2E-05Fb	Y	Y	N	
416-111-002	Mutual	CAW - Hidden Hills Unit	Y	T16S/R2E-09Cb	Y	N	N	
416-111-004	Standex	CAW - Hidden Hills Unit	Y	T16S/R2E-09Cc	Y	N	N	
416-111-004	Bay Ridge	CAW - Hidden Hills Unit	Y	T16S/R2E-09Cd	Y	Y	N	
259-031-011	RR#7	CAW - Ryan Ranch #7	Y	T15S/R1E-36Nb	Y	Y	N	
259-031-012	RR#8	CAW - Ryan Ranch #8	Y	T16S/R1E-01Cb	Y	Y	N	
259-031-012	RR#11	CAW - Ryan Ranch #11	Y	T16S/R1E-01Cd	Y	Y	N	
173-071-056	Old Main Gate (Lot #12)	Pasadera - New Cities Developme	Y	T16S/R2E-05Mg	Y	Y	N	
173-071-051	Paddock #1(Lot #11)	Pasadera - New Cities Developme	Y	T16S/R2E-05Mf	Y	N	N	
203-031-034	01-349	York School	Y	T15S/R1E-36Qa	Y	?	N	
173-071-048	(new #12)	Laguna Seca Golf Resort	Y	T16S/R2E-06Hb	Y	Y	N	
173-071-048	(racetrack)	Laguna Seca Golf Resort	Y	T16S/R2E-06Ga	Y	Y	N	
Outside MPWMD Boundaries								
173-011-025, -026	LS Cnty Park #3	MPRPD	Y	T16S/R2E-05Gd	Y	?	N	
173-011-025, -026	LS Cnty Park #4	MPRPD	Y	T16S/R2E-05Ge	Y	?	N	
					Y = 38	**N or ? = 21**	**Y = 16**	**N or ? = 16**

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: January 1, 2013 **RFS NO.** 2013-01
(To be filled in by WATERMASTER)

TO: Derrik Williams
HydroMetrics LLC
PROFESSIONAL

FROM: Robert Jaques
WATERMASTER

Services Needed and Purpose: See Scope of Work in Attachment 1.

Completion Date: All work of this RFS shall be completed not later than December 31, 2013, and shall be performed in accordance with the Schedule contained in Attachment 2.

Method of Compensation: Time and Materials (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: $ 12,100.00 (Cost is authorized only when evidenced by signature below.) (See Attachment 1 for Estimated Costs).

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by: _____ Date:_____.
WATERMASTER Technical Program Manager

Authorized by: _____ Date:_____.
WATERMASTER Chief Executive Officer

Agreed to by: _____ Date:_____.
PROFESSIONAL

ATTACHMENT 1

SCOPE OF WORK

On an ongoing and as-requested basis, PROFESSIONAL will provide general hydrogeologic consulting services to WATERMASTER on a variety of topics. These may include, but not be limited to interpretation of water level and water quality data collected by WATERMASTER, and BMAP and SIRP implementation issues.

Providing these services will likely involve attending certain of WATERMASTER's Technical Advisory Committee (TAC) meetings, most of which will be attended telephonically. These TAC meetings do not include special TAC or other meetings which may be required as part of performing other work which may be authorized under other RFSs issued to PROFESSIONAL by WATERMASTER. Any such other scope and cost proposals will incorporate costs for those meetings.

The Tasks in WATERMASTER's 2013 Monitoring and Management Program (M&MP) to which this RFS No. 2013-01 pertains are:

M. 1. c - Preparation and Attendance of Meetings
M. 1. e - Peer Review of Documents and Reports
I. 2. b. 6 - Reports
I. 4. a. - Oversight of Seawater Intrusion Detection and Tracking

ESTIMATED COSTS

General Consulting Services, including attending some TAC and other meetings either via telephone or in-person in Seaside, as requested by WATERMASTER will be billed at the following hourly rates, including all markups and other direct costs:

Derrik Williams = $195.00/hour Georgina King = $165.00/hour

In addition to hourly labor costs, an allowance of $1,000.00 is included in this RFS to cover travel and other incidental costs associated with the performance of this work.

The total cost authorized by this RFS No. 2013-01 is $12,100.00.

ATTACHMENT 2
SCHEDULE

HydroMetrics RFS No. 2013-01
Work Schedule

ID	Task Name	2013																
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	F
1	**M. 1. c - Preparation and Attendance of Meetings**																		
2	**M. 1. e - Peer Review of Documents and Reports**																		
3	**I.2.b.6 Reports (by HydroMetrics)**																		
4	**I.4.a HydroMetrics & MPWMD Provide Oversight of Seawater Intrusion Detection and Tracking**																		

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: 1/1/2013

RFS NO. 2013-02
(To be filled in by WATERMASTER)

TO: Derrik Williams
HydroMetrics LLC
PROFESSIONAL

FROM: Robert Jaques
WATERMASTER

Services Needed and Purpose: Prepare the Seawater Intrusion Analysis Report for 2013. See Scope of Work in Attachment 1.

Completion Date: All work of this RFS shall be completed not later than December 31, 2013, and shall be performed in accordance with the Schedule contained in Attachment 2.

Method of Compensation: Time and Materials (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: $ 22,655.00 (Cost is authorized only when evidenced by signature below.) (See Attachment 3 for Detailed Breakdown of Estimated Costs).

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by: _____ Date:_____.
WATERMASTER Technical Program Manager

Authorized by: _____ Date:_____.
WATERMASTER Chief Executive Officer

Agreed to by: _____ Date:_____.
PROFESSIONAL

ATTACHMENT 1

SCOPE OF WORK

The scope consists of providing professional consulting services to WATERMASTER for preparation of the 2013 Seawater Intrusion Analysis Report (SIAR).

- To promote efficiency, much of the text and graphics from the 2012 SIAR will be incorporated directly into the 2013 SIAR.

Preparing the 2013 SIAR will involve analyzing all water quality data at the end of Water Year 2013 (October 1, 2012 to September 30, 2013) and producing semi-annual (2^{nd} and 4^{th} quarters 2012) chloride concentration maps for each aquifer in the Basin. Time series graphs, trilinear graphs, and stiff diagram comparisons will be updated with new data. Second and fourth quarter groundwater elevation maps will also be produced. The annual EM logs will be analyzed to identify changes in seawater wedge locations. A determination of whether there is any evidence of seawater intrusion will be made, and recommendations will be included as warranted.

A Draft 2013 SIAR will be provided to WATERMASTER in electronic (not printed) form for review. WATERMASTER will provide its review comments and those of its TAC members through direct discussions with PROFESSIONAL at a TAC meeting. In addition to these oral comments, some TAC members may also provide recommended editorial changes electronically directly to PROFESSIONAL. These comments will be addressed in a Final 2013 SIAR. A CD containing an electronic version of the entire Final 2013 SIAR in MS Word and up to 15 printed and bound copies of the Final 2013 SIAR (quantity to be determined by WATERMASTER) will be provided to WATERMASTER.

ATTACHMENT 2

HydroMetrics RFS No. 2013-02
Work Schedule

ID	Task Name	2013																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Ju
1	**I.4.c Annual Seawater Intrusion Analysis Report (SIAR)**																		
2	HydroMetrics Provides Draft SIAR to Watermaster											**11/5**							
3	TAC Approves Annual Seawater Intrusion Analysis Report (SIAR)											**11/13**							
4	Board Approves Annual Seawater Intrusion Analysis Report (SIAR)												**11/27**						

Work Schedule for HydroMetrics RFS No 2013-02 9-28-12 Page 1

ATTACHMENT 3

DETAILED BREAKDOWN OF ESTIMATED COSTS

Note: Regardless of the use of the term "Estimated Cost" in this RFS, if the work of this RFS is to be compensated for using Lump Sum Payment method, it is understood and agreed to by PROFESSIONAL that the Total Price listed on page 1 of this RFS is binding and limiting as defined in Section V of the Agreement.

DETAILED BREAKDOWN OF ESTIMATED COSTS

HOURLY RATES: Derrik Williams = $195.00 Georgina King = $165.00

Task	Hours		Costs			
	Derrik Williams	Georgina King	Derrik Williams	Georgina King	Expenses	Total Costs
2013 Seawater Intrusion Analysis Report						
Produce 2013 SIAR	16	88	$3,120	$14,520	$3,130	$20,770
Attend One TAC Meeting in Monterey	9	0	$1,755	$0	$130	$1,885
TOTALS	**25**	**88**	**$4,875**	**$14,520**	**$3,260**	**$22,655**

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	October 10, 2012
AGENDA ITEM:	5
AGENDA TITLE:	Schedule
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

As a regular part of each monthly TAC meeting, I will provide the TAC with an updated Schedule of the activities being performed by the Watermaster, its consultants, and the public entity, MPWMD, which is performing certain portions of the work.

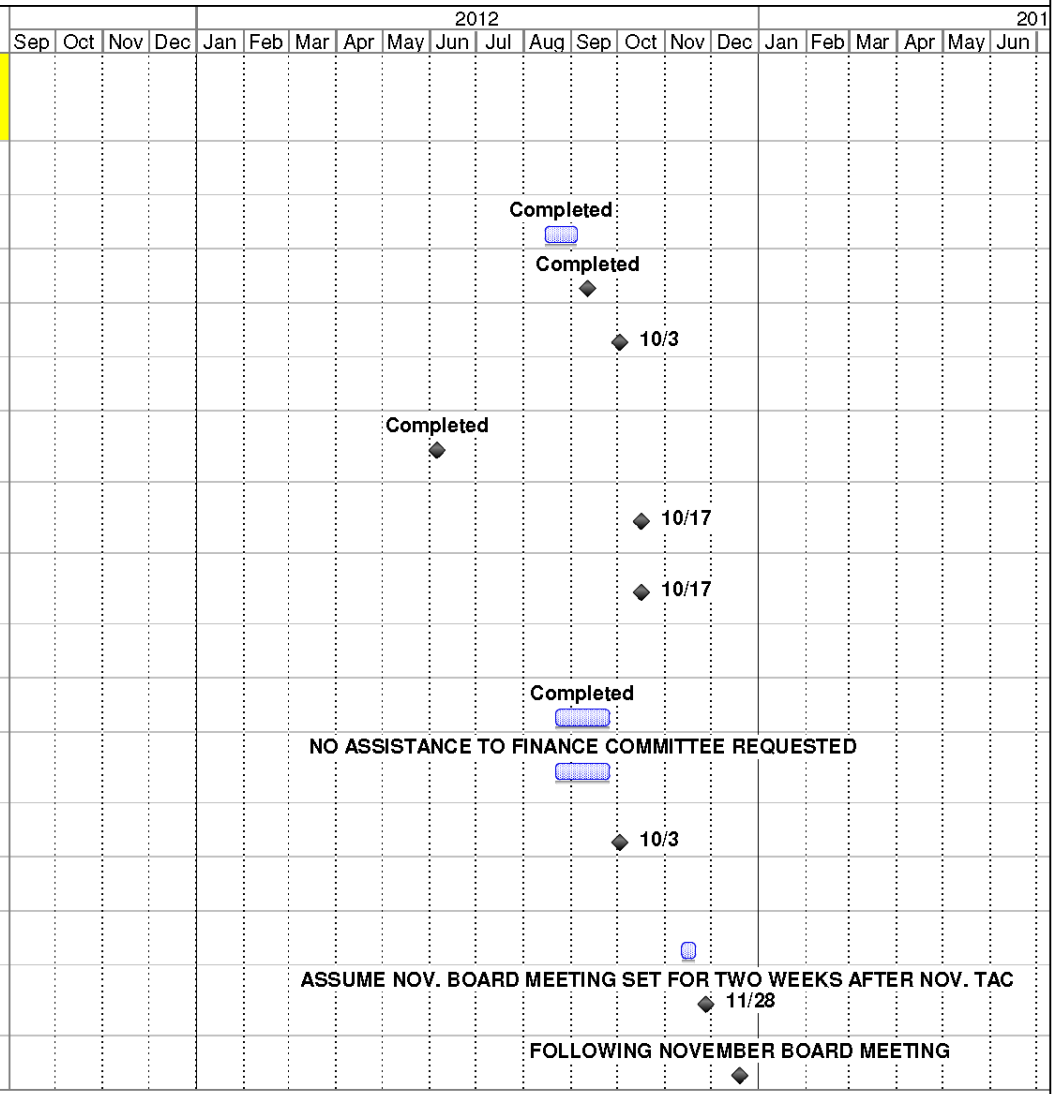
A. Attached is the most recent update of the Work Schedule for the remainder of FY 2012.

B. Attached is the proposed Work Schedule for FY 2013.

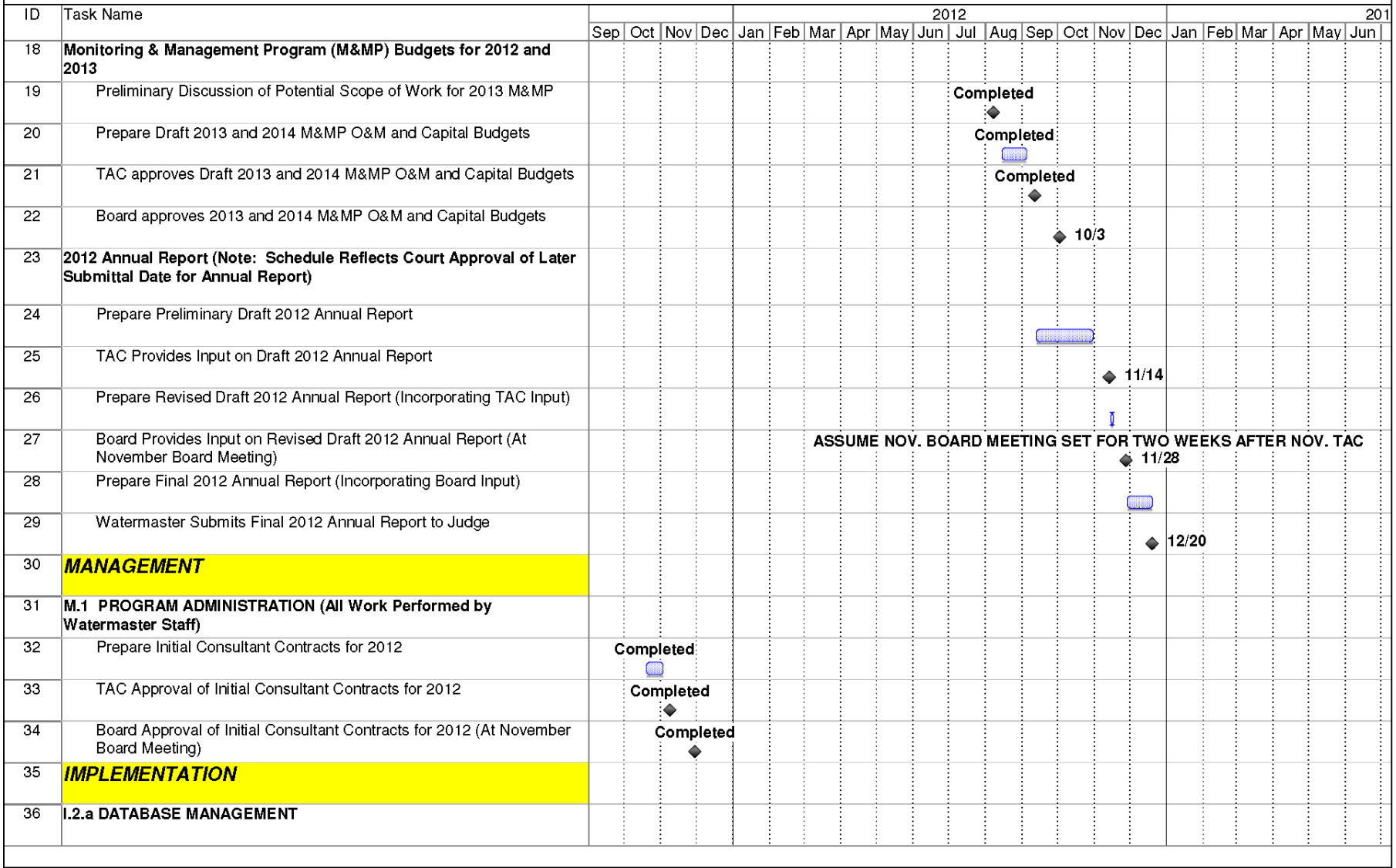
ATTACHMENTS:	Schedules of Work Activities for FY 2012 and FY 2013
RECOMMENDED ACTION:	Provide Input to Technical Program Manager Regarding Any Corrections or Additions to these Schedules

Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule

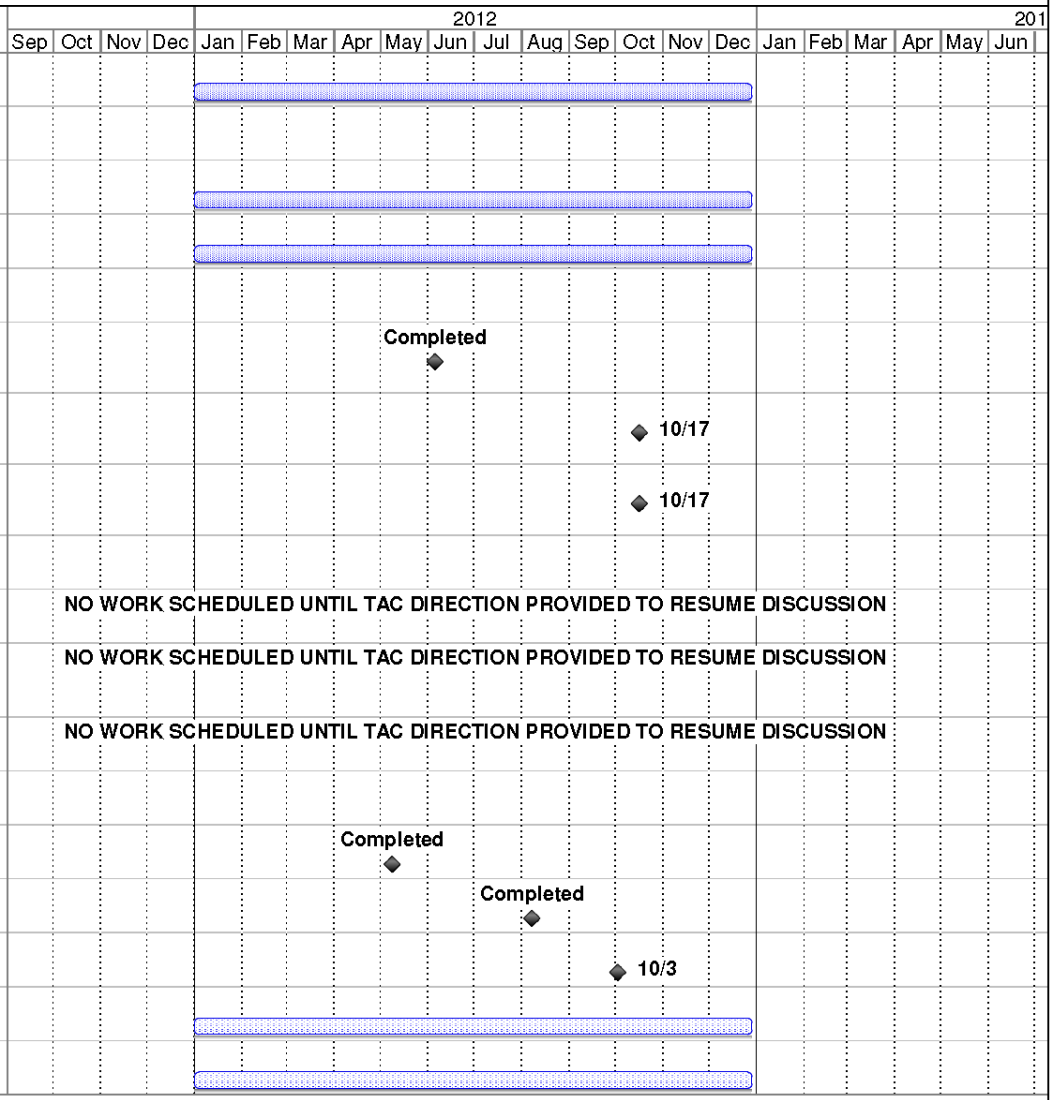
ID	Task Name
1	***CRITICAL PROJECT MILESTONES ASSOCIATED WITH TAC, BOARD, AND/OR CONSULTANT WORK***
2	**2011 Administration, Operations and Replenishment Budgets**
3	Prepare M&MP Draft Budgets (Same as Task 19)
4	TAC Approves M&MP Budgets (Same as Task 20)
5	Board Approves M&MP Budgets (Same as Task 21)
6	**Watermaster Prepares Quarterly Water Production, Water Level, and Water Quality Reports**
7	Watermaster Prepares Combined Quarterly Water Production, Water Level, and Water Quality Reports for 1st & 2nd Quarters (Same as Task 41)
8	Watermaster Prepares Quarterly Water Production, Water Level, and Water Quality Reports for 3rd and 4th Quarters (Same as Task 42)
9	Watermaster Prepares Annual Water Production, Water Level, and Water Quality Report for 2012 (Same as Task 43)
10	**Replenishment Assessment Unit Costs for Water Year 2012**
11	B&F Committee Develops Replenishment Assessment Unit Cost for 2013 Water Year
12	If Requested, TAC Provides Assistance to B&F Committee in Development of 2013 Water Year Replenishment Assessment Unit Cost
13	Board Adopts and Declares 2013 Water Year Replenishment Assessment Unit Cost
14	**Replenishment Assessments for Water Year 2012**
15	Watermaster Prepares Replenishment Assessments for Water Year 2012
16	Watermaster Board Approves Replenishment Assessments for Water Year 2012 (At November Meeting)
17	Watermaster Levies Replenishment Assessment for 2012



Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule



Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule

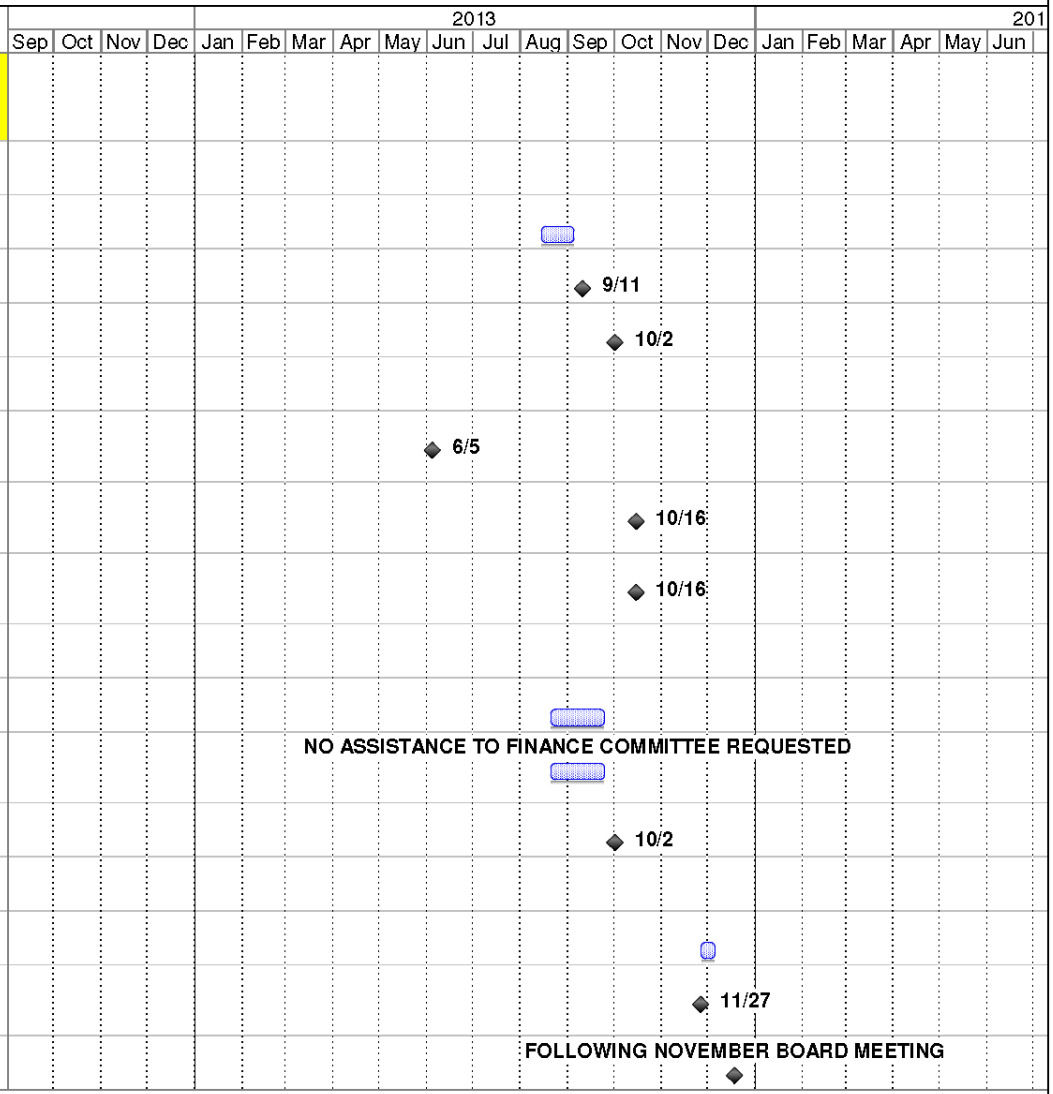


Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule

ID	Task Name	2012																201					
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
55	**I.4.c Annual Seawater Intrusion Analysis Report (SIAR)**																						
56	HydroMetrics Provides Draft SIAR to Watermaster															◆ 11/8							
57	TAC Approves Annual Seawater Intrusion Analysis Report (SIAR)															◆ 11/14							
58	Board Approves Annual Seawater Intrusion Analysis Report (SIAR)							ASSUME NOV. BOARD MEETING SET FOR TWO WEEKS AFTER NOV. TAC								◆ 11/28							
59	**I.4.d Complete Preparation of Seawater Intrusion Response Plan (SIRP)**					WORK COMPLETED - NO FURTHER WORK PLANNED IN 2012																	
60	**I.4.e Refine and/or Update the SIRP**						NOT NECESSARY																

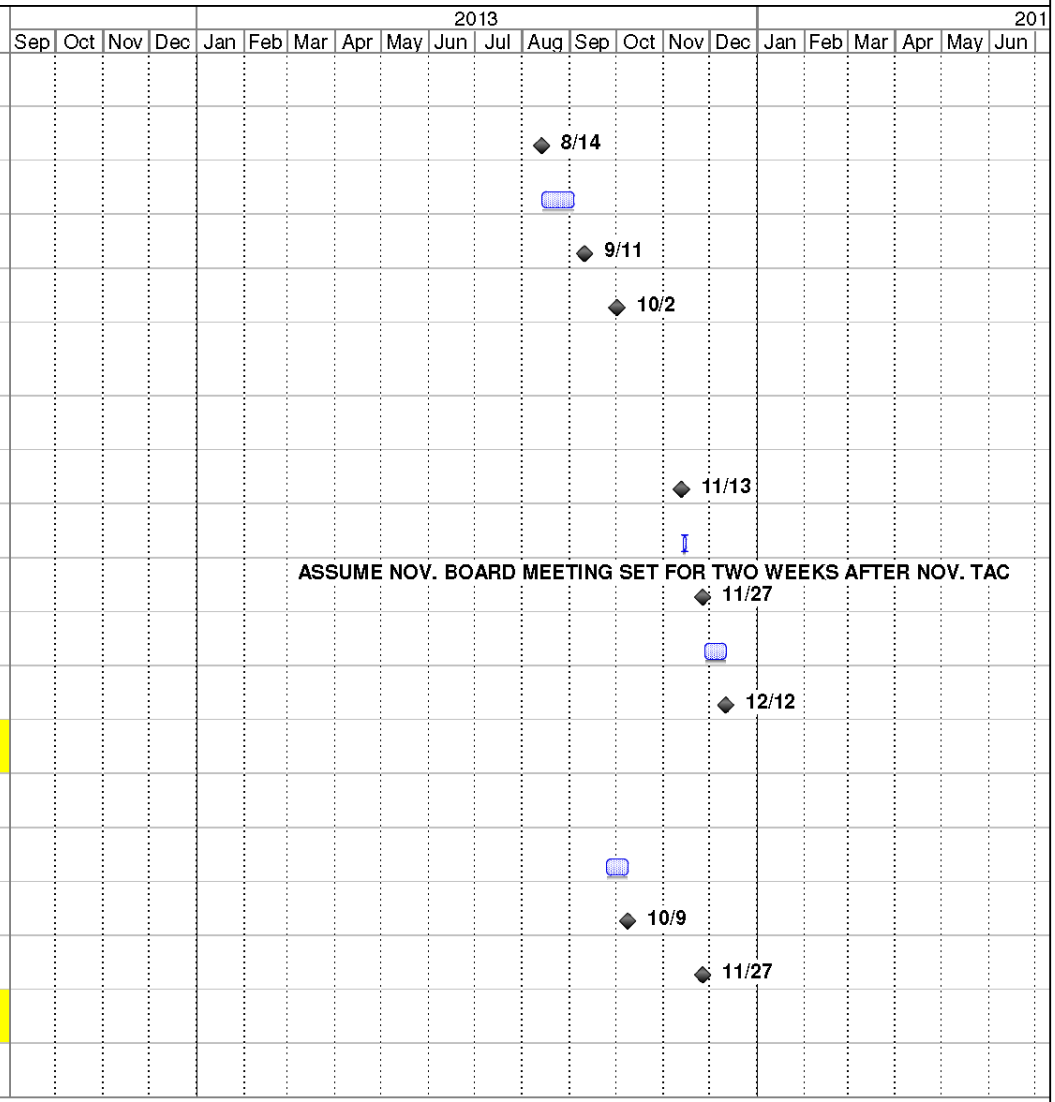
Seaside Basin Watermaster
Monitoring and Management Program
2013 Work Schedule

ID	Task Name
1	***CRITICAL PROJECT MILESTONES ASSOCIATED WITH TAC, BOARD, AND/OR CONSULTANT WORK***
2	**2014 Administration, Operations and Replenishment Budgets**
3	Prepare M&MP Draft Budgets (Same as Task 19)
4	TAC Approves M&MP Budgets (Same as Task 20)
5	Board Approves M&MP Budgets (Same as Task 21)
6	**Watermaster Prepares Quarterly Water Production, Water Level, and Water Quality Reports**
7	Watermaster Prepares Combined Quarterly Water Production, Water Level, and Water Quality Reports for 1st & 2nd Quarters (Same as Task 41)
8	Watermaster Prepares Quarterly Water Production, Water Level, and Water Quality Reports for 3rd and 4th Quarters (Same as Task 42)
9	Watermaster Prepares Annual Water Production, Water Level, and Water Quality Report for 2013 (Same as Task 43)
10	**Replenishment Assessment Unit Costs for Water Year 2014**
11	B&F Committee Develops Replenishment Assessment Unit Cost for 2014 Water Year
12	If Requested, TAC Provides Assistance to B&F Committee in Development of 2014 Water Year Replenishment Assessment Unit Cost
13	Board Adopts and Declares 2014 Water Year Replenishment Assessment Unit Cost
14	**Replenishment Assessments for Water Year 2013**
15	Watermaster Prepares Replenishment Assessments for Water Year 2013
16	Watermaster Board Approves Replenishment Assessments for Water Year 2013 (At November Meeting)
17	Watermaster Levies Replenishment Assessment for 2013



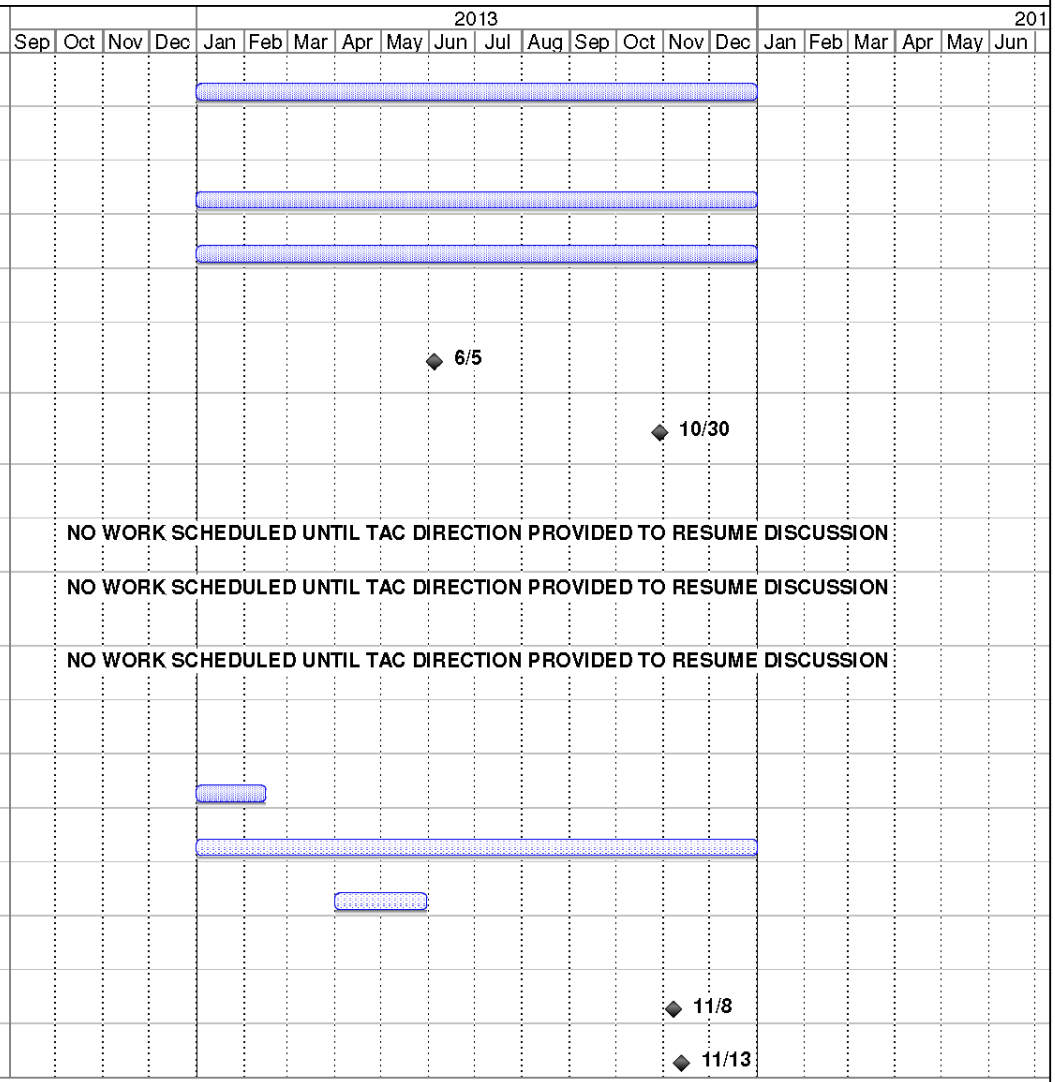
Seaside Basin Watermaster
Monitoring and Management Program
2013 Work Schedule

ID	Task Name
18	**Monitoring & Management Program (M&MP) Budgets for 2012 and 2013**
19	Preliminary Discussion of Potential Scope of Work for 2014 M&MP
20	Prepare Draft 2014 and 2015 M&MP O&M and Capital Budgets
21	TAC approves Draft 2014 and 2015 M&MP O&M and Capital Budgets
22	Board approves 2014 and 2015 M&MP O&M and Capital Budgets
23	**2013 Annual Report (Note: Schedule Reflects Court Approval of Later Submittal Date for Annual Report)**
24	Prepare Preliminary Draft 2013 Annual Report
25	TAC Provides Input on Draft 2013 Annual Report
26	Prepare Revised Draft 2013 Annual Report (Incorporating TAC Input)
27	Board Provides Input on Revised Draft 2013 Annual Report (At November Board Meeting)
28	Prepare Final 2013 Annual Report (Incorporating Board Input)
29	Watermaster Submits Final 2013 Annual Report to Judge
30	***MANAGEMENT***
31	**M.1 PROGRAM ADMINISTRATION (All Work Performed by Watermaster Staff)**
32	Prepare Initial Consultant Contracts for 2014
33	TAC Approval of Initial Consultant Contracts for 2014
34	Board Approval of Initial Consultant Contracts for 2014 (At November Board Meeting)
35	***IMPLEMENTATION***
36	**I.2.a DATABASE MANAGEMENT**



Seaside Basin Watermaster
Monitoring and Management Program
2013 Work Schedule

ID	Task Name
37	**I.2.a.1 Conduct Ongoing Data Entry/Database Maintenance**
38	**I.2.b DATA COLLECTION PROGRAM**
39	**I.2.b.2 Collect Monthly Water Levels (MPWMD)**
40	**I.2.b.3 Collect Quarterly Water Quality Samples (MPWMD)**
41	**I.2.b.6 Reports (from MPWMD)**
42	Watermaster Prepares Combined Quarterly Water Production, Water Level, and Water Quality Reports for 1st & 2nd Quarters
43	Watermaster Prepares Annual Water Production, Water Level, and Water Quality Report for 2013
44	**I.3.a ENHANCED SEASIDE BASIN GROUNDWATER MODEL**
45	**I.3.a.2 Develop Protective Water Levels**
46	**I.3.a.3 Evaluate Replenishment Scenarios and Develop Answers to Basin Management Questions**
47	**I.3.c Refine and/or Update the BMAP**
48	**I.3.d Evaluate Coastal Wells for Cross-Aquifer Contamination Potential**
49	MPWMD Migrates Well Data from Newly Identified Wells into Watermaster's Database
50	**I.4.a HydroMetrics & MPWMD Provide Oversight of Seawater Intrusion Detection and Tracking**
51	**I.4.b MPWMD Performs Focused Hydrogeologic Investigation in Vicinity of Sand City Public Works Well**
52	**I.4.c Annual Seawater Intrusion Analysis Report (SIAR)**
53	HydroMetrics Provides Draft SIAR to Watermaster
54	TAC Approves Annual Seawater Intrusion Analysis Report (SIAR)



Seaside Basin Watermaster
Monitoring and Management Program
2013 Work Schedule

ID	Task Name	2013																201					
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
55	Board Approves Annual Seawater Intrusion Analysis Report (SIAR)																11/27						
56	I.4.c Annual Seawater Intrusion Analysis Report (SIAR)																						
57	**I.4.d Complete Preparation of Seawater Intrusion Response Plan (SIRP)**					WORK COMPLETED - NO FURTHER WORK PLANNED IN 2013																	
58	**I.4.e Refine and/or Update the SIRP**						NOT NECESSARY																

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	October 10, 2012
AGENDA ITEM:	6
AGENDA TITLE:	Other Business
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:
The "Other Business" agenda item is intended to provide an opportunity for TAC members or others present at the meeting to discuss items not on the agenda that may be of interest to the TAC.

ATTACHMENTS:	None
RECOMMENDED ACTION:	None required – information only