

SEASIDE BASIN WATERMASTER  
REQUEST FOR SERVICE

DATE: 1/1/2010

RFS NO. 2010-02

(To be filled in by WATERMASTER)

TO: Derrick Williams  
HydroMetrics LLC  
PROFESSIONAL

FROM: Robert Jaques  
WATERMASTER

**Services Needed and Purpose:** Prepare the Seawater Intrusion Analysis Report for 2010. See Scope of Work in Attachment 1.

**Completion Date:** All work of this RFS shall be completed not later than December 31, 2010, 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: \$ 22,020.00 (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: 12/14/09  
WATERMASTER Technical Program Manager

Authorized by:  Date: 12/15/2009  
WATERMASTER Chief Executive Officer

Agreed to by:  Date: 12/08/09  
PROFESSIONAL

# **ATTACHMENT 1**

## **SCOPE OF WORK**

The scope consists of providing professional consulting services to WATERMASTER for preparation of the 2010 Seawater Intrusion Analysis Report (SIAR).

To promote efficiency, much of the text and graphics from the 2009 SIAR will be incorporated directly into the 2010 SIAR. Changes that will be incorporated into the 2010 SIAR will include:

- Updating charts, graphs, and maps to reflect the most recent sampling and water level data.
- Analyzing the quarterly electric induction logs (EM logs) from the newly installed sentinel wells to look for evidence of seawater intrusion.
- Incorporating data from new wells which may be added to WATERMASTER's enhanced monitoring well network.

Preparing the 2010 SIAR will involve analyzing all water quality data at the end of Water Year 2010 (October 1, 2009 to September 30, 2010) and producing semi-annual (2<sup>nd</sup> and 4<sup>th</sup> quarters 2010) 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 2010 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 2010 SIAR. A CD containing an electronic version of the entire Final 2010 SIAR in MS Word and 15 printed and bound copies of the Final 2010 SIAR will be provided to WATERMASTER.

**ATTACHMENT 2**







# Seaside Basin Watermaster Monitoring and Management Program 2010 Work Schedule

ID	Task Name	2010															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
67	TAC Approves Recommendations			◆ 3/10													
70	I.2.b.6 Reports (from MPWMD)								◆ 9/8								
71	I.3.a ENHANCED SEASIDE BASIN GROUNDWATER MODEL			SEE ID 6 ABOVE													
72	I.3.a.2 Develop Protective Water Levels																
73	HydroMetrics Meets with TAC to Discuss Development of Protective Water Levels			◆ 1/13													
74	Prepare Contract with HydroMetrics to Refine Protective Water Levels Developed in 2009																
75	TAC Approves Contract with HydroMetrics to Refine Protective Water Levels			◆ 2/10													
76	Board Approves Contract with HydroMetrics to Refine Protective Water Levels																
77	HydroMetrics Refines Protective Water Levels																
78	HydroMetrics Makes Summary Report to TAC on Refinement of Protective Water Levels																
79	HydroMetrics Makes Summary Report to Board on Protective Water Levels																
80	I.3.a.3 Evaluate Replenishment Scenarios and Develop Answers to Basin Management Questions																
81	HydroMetrics Meets with TAC to Select Additional Scenarios to be Evaluated			◆ 1/13													
82	Possible Second Meeting with TAC to Complete Selection of Additional Scenarios to be Evaluated																
83	Prepare Contract with HydroMetrics to Evaluate Additional Replenishment Scenarios			◆ 2/10													





**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:

Derrick Williams = \$180.00

Georgina King = \$160.00

Task	Hours		Costs		
	Derrick Williams	Georgina King	Derrick Williams	Georgina King	Total Costs
<b>2010 Seawater Intrusion Analysis Report</b>					
Produce 2010 SIAR	16	88	\$2,880	\$14,080	\$20,090
Attend One TAC Meeting in Seaside	10	0	\$1,800	\$0	\$1,930
<b>TOTALS</b>	<b>26</b>	<b>88</b>	<b>\$4,680</b>	<b>\$14,080</b>	<b>\$22,020</b>