

SEASIDE BASIN WATERMASTER  
REQUEST FOR SERVICE

**DATE:** March 6, 2025

**RFS NO.** 2025-03

(To be filled in by WATERMASTER)

**TO:** Georgina King  
Montgomery & Associates  
PROFESSIONAL

**FROM:** Robert Jaques  
WATERMASTER

**Services Needed and Purpose:** Update WATERMASTER's Seawater Intrusion Response Plan. See Scope of Work in Attachment 1.

**Completion Date:** PROFESSIONAL shall complete the work of this RFS No. 2025-3 within four months from the date it receives a Notice to Proceed from the Watermaster.

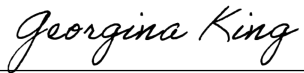
**Method of Compensation:** Time and Materials (As defined in Section V of Agreement.)

**Total Price** Authorized by this RFS: \$ 25,481.00 (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:**   
WATERMASTER  
Technical Program Manager

Date: 3/5/25

**Agreed to by:**   
PROFESSIONAL

Date: 3/10/2025

# **ATTACHMENT 1**

## **SCOPE OF WORK**

This RFS No. 2025-03 authorizes PROFESSIONAL to prepare an updated Seawater Intrusion Response Plan (SIRP) to replace the original SIRP that was prepared by HydroMetrics LLC in 2009. The detailed Scope of Work of this RFS No. 2025-03 is described in the attached Proposal from Montgomery & Associates dated June 24, 2024, which also provides a Schedule and Cost Estimate to perform the work . As part of the work of this RFS No. 2025-03 PROFESSIONAL will make three presentations on the updated SIRP, two to WATERMASTER’s Technical Advisory Committee, and one to WATERMASTER’s Board of Directors, all of which will be made by teleconference (Zoom). Under this RFS No. 2025-03 PROFESSIONAL will edit the draft updated SIRP to reflect requests made from WATERMASTER’s Technical Advisory Committee and its Board of Directors and provide a final version of the updated SIRP to WATERMASTER.



June 24, 2024

Mr. Bob Jaques  
Seaside Watermaster Technical Program Manager  
83 Via Encanto  
Monterey, CA 93940

## **SUBJECT: SCOPE TO UPDATE SEASIDE BASIN SEAWATER INTRUSION RESPONSE PLAN**

Dear Mr. Jaques

Montgomery & Associates (M&A) is pleased to present this scope of work to update the Seaside Basin (Basin) Seawater Intrusion Response Plan (SIRP).

### **Background**

The SIRP, prepared in February 2009, is the Seaside Basin Watermaster's contingency plan for responding to seawater intrusion in the Basin, should it occur. The SIRP was developed as part of the Watermaster's implementation of the Seaside Basin Monitoring and Management Program. The SIRP details the indicators of seawater intrusion and action levels that trigger response measures, and recommended actions to be taken when seawater intrusion is observed.

At the June 2024 Technical Advisory Committee (TAC) meeting, there was consensus to update the SIRP per recommendations included in the TAC meeting packet. This scope of work is based on those recommendations, except for developing Protective Water Levels (PWLs) for major production wells. That recommendation is excluded from the scope because to reverse the current onshore groundwater flow direction, PWLs in production wells need to be well above sea level. This is impractical since pumping levels induced by production wells in the Northern Coastal subarea are up to 50 feet below sea level, even with operation of Pure Water Monterey.

## **Scope of Work**

### ***Task 1. Update SIRP Figures, Tables, and Appendices***

Update Figure 1: Wells with Historical Water Quality Data, Table 1: Chloride Threshold Values and Trend Analysis and Table 2: Sodium/Chloride Molar Trend Analysis with additional data and wells. A statistical analysis of chloride concentration and Sodium/Chloride Molar Ratios is needed to update the 2 tables and will be described in Appendix C. M&A will compile all chloride and sodium data for existing and new monitoring wells and use the Mann-Kendall statistical approach to objectively determine if trends are increasing, stable or decreasing.

The update will include replacing the following appendices with updated versions incorporating all available data and updated analysis:

- Appendix B: Historical Chloride Concentration Graphs
- Appendix C: Statistical Trend Analysis
- Appendix D: Historical Sodium/Chloride Molar Ratio Graphs
- Appendix E: Piper Diagrams for Seaside Groundwater Basin Wells
- Appendix F: Stiff Diagrams for Seaside Groundwater Basin Wells

For efficiency, Appendices B, D, E and F will be updated based on Water Year 2024 Seawater Intrusion Analysis Report content with some minor adjustments to display SIRP-specific information.

### ***Task 2. Revise List of Tasks in Contingency Action No. 4 on Pumping Redistribution Plan***

Revise the list of tasks in the 2009 SIRP's Contingency Action No. 4 to make the Action more practical and straightforward to implement. For this task, M&A proposes to develop a number of options to present at a future TAC meeting to solicit feedback from TAC members on preferred options.

### ***Task 3. Incorporate Geophysical Data as a Seawater Intrusion Indicator and Trigger***

Establish an approach to incorporate repeatable geophysical measurements and data at monitoring wells as a seawater intrusion indicator and trigger.

### ***Task 4. Prepare Updated SIRP***

M&A will prepare a draft updated SIRP for review by the TAC. After incorporating comments from the TAC and Technical Program Manager, a Board draft SIRP will be prepared and included in the Board's meeting packet. Board comments will be addressed in the final updated SIRP. M&A will email the Technical Program Manager PDF and Word versions of the final updated SIRP.

***Task 5. TAC and Board Meetings***

Georgina King will prepare for and remotely attend two TAC meetings. The first TAC meeting will be to present options for revising the Contingency Action No. 4 on Pumping Redistribution Plan. The second TAC meeting will be to present the draft SIRP updates. Georgina King will also remotely present the SIRP updates to the Board.

**Project Budget and Schedule**

We understand this work shall be undertaken in 2025. It is anticipated that the work can be completed within a three-month period, though the timing may depend on the scheduling of TAC and Board meetings. We can begin work immediately following notice to proceed.

Total estimated costs to update the SIRP is \$25,481 as detailed in the attached cost table.

Please feel free to contact us with any questions about the proposed scope of work and budget.

Sincerely,  
MONTGOMERY & ASSOCIATES



Georgina King, P.G., C.Hg.  
Principal Hydrogeologist

Table 1. Cost Estimate for Seawater Intrusion Response Plan Update

		Montgomery & Associates Labor						Other Direct Costs	TOTALS
		Scientist VII	Scientist VII	Scientist III	Technical Editor	Labor Total			
		C. Tana	G. King			Hours	(\$)		
Task	Hourly Rates	\$265	\$265	\$172	\$86				
1	Update SIRP Figures and Tables	0	20	30	0	50	\$10,460	\$0	\$10,460
2	Revise List of Tasks in Contingency Action No. 4 on Pumping Redistribution Plan	3	10	0	0	13	\$3,445	\$0	\$3,445
3	Incorporate Geophysical Data as a Seawater Intrusion Indicator and Trigger	4	12	8	0	24	\$5,616	\$0	\$5,616
4	Prepare Updated SIRP	0	8	4	4	16	\$3,152	\$0	\$3,152
5	TAC and Board Meetings	0	8	4	0	12	\$2,808	\$0	\$2,808
	<b>Total</b>	<b>7</b>	<b>58</b>	<b>46</b>	<b>4</b>	<b>115</b>	<b>\$25,481</b>	<b>\$0</b>	<b>\$25,481</b>