

SEASIDE GROUNDWATER BASIN WATERMASTER

Wednesday, August 1, 2018 – 2:00pm

Monterey One Water Board Room, 5 Harris Court, Building “D”

Ryan Ranch, Monterey, California

AGENDA

Watermaster Board

- City of Seaside – Mayor Ralph Rubio, Chairman
- Coastal Subarea Landowner – Director Paul Bruno, Vice Chair
- California American Water – Nina Miller (Alternate)
- City of Sand City – Mayor Mary Ann Carbone
- Monterey Peninsula Water Management District – Director Jeanne Byrne
- Laguna Seca Subarea Landowner – Director Bob Costa
- City of Monterey – Councilmember Dan Albert
- City of Del Rey Oaks – Mayor Jerry Edelen
- Monterey County/Monterey County Water Resources Agency – Supervisor Mary Adams, District 5

I. CALL TO ORDER

II. ROLL CALL

III. PUBLIC COMMUNICATIONS

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

IV. REVIEW OF AGENDA

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

V. MINUTES

Approve Minutes of the Regular Board meeting held March 7, 2018 3

VI. CONSENT CALENDAR

- A.** Consider approving Summary of Payments February - June 2018 totaling \$105,807.79 7
- B.** Consider Approving Fiscal Year 2018 Financial Reports through June 30, 2018 11

- C. Technical Memorandum from HydroMetrics on Updating and Recalibrating the Seaside Basin Groundwater Model (*View the full memo at <http://seasidebasinwatermaster.org/sbwmARC.html> Meeting Notices/Agenda & Packets/Minutes column on the August 1, 2018 date line*) 15
- D. Purchase of HydroMetrics by Montgomery and Associates, Consider Issuance of a Professional Services Agreement with Montgomery and Associates, and Consider Reissuance of Existing HydroMetrics Contracts to Montgomery and Associates (*View the full agreement at <http://seasidebasinwatermaster.org/sbwmARC.html> in the Meeting Notices/Agenda & Packets/Minutes column on the August 1, 2018 date line*) 19
- E. Montgomery & Associates Contract to Update the Basin Management Action Plan..... 31
- F. Adjustment to the Watermaster 2018 Administrative Budget to cover unanticipated costs for services from Brownstein, Hyatt, Farber, Schreck (BHFS) (Russ McGlothlin) 41

VII. ORAL PRESENTATION - None Scheduled

VIII. OLD BUSINESS – None

IX. NEW BUSINESS – None

X. INFORMATIONAL REPORTS (No Action Required)

- A. Technical Advisory Committee (TAC) draft minutes from meeting held March 14, June 13, and July 11, 2018 43-58
- B. Watermaster report of production of the Seaside Basin Water Year 2018 (October 1, 2017 – September 30, 2018) thru June 30, 2018..... 59
- C. Stipulation and [Proposed] Order Modifying Exhibit C to Amended Decision and Notice of Vacated Hearing Re: Bishop, McIntosh & McIntosh Motion To Modify Exhibit C To Amended Decision (*View the full documents at <http://seasidebasinwatermaster.org/sbwmARC.html> in the Court Docs column on the July 2, 2018 date line*)..... 61

XI. DIRECTOR’S REPORTS

XII. STAFF COMMENTS

XIII. NEXT REGULAR MEETING DATE – Wednesday, September 5, 2018 - 2:00 P.M.

XIV. ADJOURNMENT

This agenda was forwarded via e-mail to the City Clerks of Seaside, Monterey, Sand City and Del Rey Oaks; the Clerk of the Monterey Board of Supervisors, the Clerk to the Monterey Peninsula Water Management District; the Clerk at the Monterey County Water Resources Agency, Monterey One Water and the California American Water Company for posting on July 26, 2018 per the Ralph M. Brown Act, Government Code Section 54954.2(a).

**SEASIDE GROUNDWATER BASIN WATERMASTER (Watermaster)
REGULAR MEETING MINUTES**

Monterey One Water Board Room, 5 Harris Court, Building “D”
Ryan Ranch, Monterey, California
March 7, 2018

I. CALL TO ORDER – Chair Rubio called the meeting to order at 2:00 p.m.

II. ROLL CALL

City of Seaside – Mayor Ralph Rubio – Chair
City of Sand City – Mayor Mary Ann Carbone – Vice Chair
California American Water (CAW) – Director Eric Sabolsice
Laguna Seca Subarea Landowner – Director Bob Costa
Coastal Subarea Landowner – Director Paul Bruno
City of Del Rey Oaks – Mayor Jerry Edelen
City of Monterey – Council Member Dan Albert
Monterey Peninsula Water Management District (MPWMD) – Andrew Clarke (alternate)

Watermaster Technical Program Manager – Robert Jaques
Watermaster Administrative Officer – Laura Dadiw

Absent:

Monterey County/Monterey County Water Resources Agency – Supervisor Mary Adams

Others Present

Russ McGlothlin, Watermaster Legal Counsel (via teleconference)
Lori Girard, CAW Legal Counsel (via teleconference)
Don Freeman, City of Seaside Legal Counsel
Rick Riedl, City of Seaside Engineer

III. REVIEW OF AGENDA: There were no requested changes to the agenda.

IV. APPROVAL OF MINUTES

It was moved by Director Bruno, seconded by Mayor Edelen, and unanimously carried to approve the minutes of the two Regular Board meetings (2016-2017 Term and 2018-2019 Term) held February 7, 2018, with correction of “Counsel Member” Bruno under Item III in the 2016-17 Term minutes.

V. PUBLIC COMMUNICATIONS: There were no public communications.

VI. CONSENT CALENDAR

- A.** Consider approving Summary of Payments November - December 2017 totaling \$43,420.50 and January 2018 totaling \$8,147.20
- B.** Consider Approving Fiscal Year 2018 Financial Reports through January 31, 2018

Moved by Mayor Edelen, seconded by Mayor Carbone, and unanimously carried to approve the consent calendar as presented.

VII. ORAL PRESENTATION: None Scheduled

VIII. NEW BUSINESS

- A. Consider accepting the Watermaster Case Management Conference Statement for the Hearing scheduled for March 23, 2018 at 9:00am to be held telephonically via CourtCall with Judge Leslie Nichols. Attachments to the Statement were provided on the Watermaster website at <http://seasidebasinwatermaster.org/sbwmARC.html>.

Watermaster Attorney Russ McGlothlin of Brownstein, Hyatt, Farber, and Schreck anticipated a routine status conference using cost-saving teleconference. Counsel encouraged edits and comments before filing the statement in approximately one week.

Director Sabolsice was concerned with Section B (page 2) of the statement that leads off with verbiage about indications of potential seawater intrusion; Mayor Rubio suggested re-sequencing the opening wording to emphasize that there is no seawater intrusion occurring.

Director Sabolsice felt statement wording implies that Watermaster should seriously consider the proposed sale of water by Marina Coast Water District (MCWD) even though, from CAW's standpoint, there are numerous unresolved issues that preclude viability. Director Bruno felt the proposed MCWD sale was premature to include in the statement at all. Director Sabolsice felt the Judge should be informed of the proposal, however linking the proposal with avoiding the triennial ramp down should not be conveyed. Counsel McGlothlin confirmed that the two issues are not linked and are presented separately in the document. Mayor Rubio felt the MCWD proposal was too detailed for the Judge's consideration and requested Section III C lines 8 to 14 be struck: *At this point, it appears that the most promising and easiest approach ... to which the city is entitled under the Decision.* Director Costa suggested the word "negotiated" in "The details of such a proposal are being negotiated" be replaced with "reviewed." Counsel McGlothlin requested input be submitted to him by next Monday.

Moved by Director Bruno, seconded by Council Member Albert, and unanimously carried to refer the Status Conference Statement back to combined Watermaster / California American Water counsel for further edits; the final draft of the Statement will be circulated to board members for final review via email instructing not to "reply all." If there is contention, the statement will be referred to the Chair to approve or to convene a special meeting.

IX. OLD BUSINESS:

A. COMMITTEE REPORTS

1. TECHNICAL ADVISORY COMMITTEE (TAC)

- a. Consider correspondence relating to MCWD proposing to sell water to replenish the Seaside Basin for use in the Ord Community, and provide direction to staff. Mr. Jaques reviewed the submitted transmittal. Mr. McGlothlin and Watermaster staff will discontinue evaluating the September 27th Proposal, and will instead focus on reviewing the new proposal submitted by MCWD to Watermaster counsel on March 1, 2018.

Moved by Director Bruno, seconded by Director Sabolsice, and unanimously carried to refer the new proposal to the TAC.

- X. INFORMATIONAL REPORTS:**
 - A. Technical Advisory Committee (TAC) draft minutes from the meeting held February 14, 2018
- XI. DIRECTOR'S REPORTS:** Mayor Rubio may be absent from the April 4, 2018 board meeting.
- XII. STAFF COMMENTS:** There were no staff comments.
- XIII. NEXT MEETING DATE:** The next meeting of the Watermaster board will be held Wednesday, April 4, 2018 at the Monterey One Water board room at 5 Harris Court, Building "D" on Ryan Ranch in Monterey at 2:00 p.m.
- XIV.** There being no further business, Chair Rubio adjourned the meeting at 2:34 p.m.

SEASIDE GROUNDWATER BASIN WATERMASTER

TO: Board of Directors
FROM: Laura Dadiw, AO
DATE: August 1, 2018
SUBJECT: Summary of Payments made during the months of February - June 2018

RECOMMENDATIONS:

Consider approving the payment of bills submitted and authorized to be paid February - June 2018.

Summary of Payments Made February 2018

Dadiw Associates (Administrative Officer (AO))

| | | |
|--------------------------------------------|----|-------------|
| January 26, 2018 through February 25, 2018 | 29 | \$ 2,900.00 |
|--------------------------------------------|----|-------------|

Responded to telephone inquiries, e-mail, and other correspondence as needed regarding the Seaside Basin. Gathered and posted water production and water level data. Prepared agenda and packet for February board meeting and completed minutes of meeting; began recalculation of In Lieu Project standard producer portioning over project years per Sabolsic request; conveyed contracts to board chair at City of Seaside for signature; routinely picked up mail from PO Box; reconciled accounts to the City of Seaside Watermaster accounts; prepared financial reports; processed invoices, deposited assessment payments at City of Seaside; reviewed and posted items to web site.

Robert Jaques (Technical Program Manager)

| | | |
|----------------------------------------|----|----------|
| February 1, 2018 through March 1, 2018 | 48 | 4,800.00 |
|----------------------------------------|----|----------|

Responded to emails, telephone inquiries, and other correspondence on a variety of Watermaster issues; prepared TAC agenda packet and attended TAC meeting on February 14 and prepared minutes. Prepared for and attended February board meeting; met w/Van Der Maaten and evaluated MCWD water sale proposal; delivered cost share agreements to Stoldt & AO; reviewed draft CAW storage agreement application; signed consultant RFSs & delivered to AO; reviewed draft stormwater recovery study; reviewed portions of PWA final engineering report and

HydroMetrics Water Resources, Inc. (Technical Consultant)

| | | |
|----------------------------------------------------|----|----------|
| February 2018-RFS 2018-03 Groundwater Model Update | 12 | 2,402.50 |
|----------------------------------------------------|----|----------|

| | |
|-------------------------|--------------|
| Total for February 2018 | \$ 10,102.50 |
|-------------------------|--------------|

Summary of Payments Made March 2018

Dadiw Associates (Administrative Officer (AO))

February 26, 2018 through March 25, 2018 36.5 \$ 3,650.00
Responded to telephone inquiries, e-mail, and other correspondence as needed regarding the Seaside Basin. Gathered and posted water production and water level data. Prepared agenda and packet for March board meeting and completed minutes of meeting; recalculation of In Lieu Project standard producer portioning over project years per Sabolsic request; calculation for SNG conversion of APA to SPA; attended status conference on March 23; routinely picked up mail from PO Box; reconciled accounts to the City of Seaside Watermaster accounts; prepared financial reports; processed invoices; reviewed and posted items to web site.

Brownstein, Hyatt, Farber, Schreck (Russ McGlothlin, Esq.)

February 2018-RFS 2018-01 Miscellaneous legal consultation
Status conference preparation and attendance 4.8 2,160.00
Postage and filing fees 29.22 \$ 2,189.22

Robert Jaques (Technical Program Manager)

March 2 2018 through March 31, 2018 29.5 2,950.00
Responded to emails, telephone inquiries, and other correspondence on a variety of Watermaster issues; prepared TAC agenda packet and attended TAC meeting on March 14 and prepared minutes. Prepared for and attended March board meeting; evaluated MCWD water sale proposal; reviewed draft stormwater recovery study; status conference preparation and attendance; reviewed MPWSP EIR/EIS.

HydroMetrics Water Resources, Inc. (Technical Consultant)

March 2018-RFS 2018-03 Groundwater Model Update 25.50 4,545.00

Martin B. Feeney, PG, CHg - Consulting Hydrogeologist

January 1-April 5, 2018-RFS 2018-01 Sentinel Wells Data Collecti 21.8 3,663.75
Induction logging/downhole sampling services 5,644.67 \$ 9,308.42

Total for March 2018 \$ 22,642.64

Summary of Payments Made April 2018

Dadiw Associates (Administrative Officer (AO))

March 26, 2018 through April 25, 2018 35 \$ 3,500.00
Responded to telephone inquiries, e-mail, and other correspondence as needed regarding the Seaside Basin. Gathered and posted water production and water level data. Prepared board meeting cancellation notice; Bishop motion; data collection invoices to 4 parties; scanned board/TAC packets for backup digital filing; CAW wheeling and LSRA conversion to SPA research; routinely picked up mail from PO Box; reconciled accounts to the City of Seaside Watermaster accounts; prepared financial reports; processed invoices; reviewed and posted items to web site.

Brownstein, Hyatt, Farber, Schreck (Russ McGlothlin, Esq.)

| | | |
|---------------------------------------------------------|------|--------------------|
| March 2018-RFS 2018-01 Miscellaneous legal consultation | | |
| MCWD water sales proposal | 2.6 | 1,170.00 |
| Case Management Conference and Statement | 12.4 | 5,557.50 |
| SNG APA to SPA conversion consideration | 1.7 | 742.50 |
| Bishop McIntosh McIntosh notice to amend | 0.5 | 225.00 |
| Filing Fee Case Management Conference | | 182.80 |
| | | \$ 7,877.80 |

Robert Jaques (Technical Program Manager)

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|
| April 2, 2018 through May 4, 2018 | 14.5 | 1,450.00 |
| Responded to emails, telephone inquiries, and other correspondence on a variety of Watermaster issues; prepared TAC agenda packet; PWM storage agmt; reviewed contractor invoices; revised Annual Report template to include items requested by the Judge; reviewed MPWSP EIR/EIS; attended SVBGSA Advisory Committee meeting in Salinas. | | |

HydroMetrics Water Resources, Inc. (Technical Consultant)

| | | |
|-------------------------------------------------|--------|------------------|
| April 2018-RFS 2017-03 Groundwater Model Update | 172.25 | 28,660.00 |
|-------------------------------------------------|--------|------------------|

| | |
|----------------------|---------------------|
| Total for April 2018 | \$ 41,487.80 |
|----------------------|---------------------|

Summary of Payments Made May 2018**Dadiw Associates (Administrative Officer (AO))**

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------|
| April 26, 2018 through May 25, 2018 | 21.5 | \$ 2,150.00 |
| Responded to telephone inquiries, e-mail, and other correspondence as needed regarding the Seaside Basin. Gathered and posted water production and water level data. Prepared board meeting cancellation notice; Bishop motion; scanned board/TAC packets for backup digital filing; routinely picked up mail from PO Box; deposited data collection payments at City of Seaside; prepared financial reports; processed invoices; reviewed and posted items to web site. | | |

Brownstein, Hyatt, Farber, Schreck (Russ McGlothlin, Esq.)

| | | |
|---------------------------------------------------------|-----|-----------------|
| April 2018-RFS 2018-01 Miscellaneous legal consultation | | |
| CAW production of LSRA APA | 0.2 | 90.00 |
| Filing Fee Case Management Conference | | 3.60 |
| | | \$ 93.60 |

Robert Jaques (Technical Program Manager)

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------|
| May 7, 2018 through May 26, 2018 | 19 | 1,900.00 |
| Responded to emails, telephone inquiries, and other correspondence on a variety of Watermaster issues; prepared TAC agenda packet; worked on Annual Report; prepared SVBGSA Advisory Committee meeting notes; attended Regional Water Management Group meeting telephonically. | | |

HydroMetrics Water Resources, Inc. (Technical Consultant)

| | | |
|-----------------------------------------------|------|------------------|
| May 2018-RFS 2018-03 Groundwater Model Update | 88.5 | 14,922.50 |
|-----------------------------------------------|------|------------------|

Martin B. Feeney, PG, CHg - Consulting Hydrogeologist

April 5, 2018-June 5, 2018-RFS 2018-02 Hydrogeologic Consultin 21.8 926.25

Total for May 2018 \$ 19,992.35

Summary of Payments Made June 2018

Dadiw Associates (Administrative Officer (AO))

May 26, 2018 through June 25, 2018 20 \$ 2,000.00

regarding the Seaside Basin. Gathered and posted water production and water level data. Prepared board meeting cancellation notice; posted board/TAC packets for backup digital filing; routinely picked up mail from PO Box; processed invoices; reviewed and posted items to web site.

Brownstein, Hyatt, Farber, Schreck (Russ McGlothlin, Esq.)

May 2018-RFS 2018-01 Miscellaneous legal consultation
Bishop McIntosh McIntosh motion to amend 0.9 405.00

Brownstein, Hyatt, Farber, Schreck (Russ McGlothlin, Esq.)

June 2018-RFS 2018-01 Miscellaneous legal consultation
Bishop McIntosh McIntosh motion to amend 0.7 315.00
PRA records request 1.3 585.00 \$ 900.00

Robert Jaques (Technical Program Manager)

June 6, 2018 through June 30, 2018 44.5 4,450.00
responded to emails, telephone inquiries, and other correspondence on a variety of Watermaster issues; prepared TAC agenda packet; prepared for and attended TAC meeting June 13 and prepared minutes; reviewed contractor invoices; reviewed HydroMetrics model tech memo; requested Yates review of model update; reviewed SVBGSA Advisory Committee meeting agenda; BMAP update; attended PWM workshop at MIIS; drafted 2019 M&MP Work Plan; attended SWRP workshop Mty Conference Center;

HydroMetrics Water Resources, Inc. (Technical Consultant)

June 2018-RFS 2018-03 Groundwater Model Update 21 3,827.50

Total for June 2018 \$ 11,582.50

Grand Total February - June 2018 \$ 105,807.79

Seaside Groundwater Basin Watermaster
Budget vs. Actual Administrative Fund
 Fiscal Year (January 1 - December 31, 2018)
 Balance through June 30, 2018

| | <u>2018 Adopted Budget</u> | <u>Contract Amount</u> | <u>Year to Date Revenue / Expenses</u> |
|---------------------------------------------|--------------------------------|----------------------------|------------------------------------------------|
| Available Balances & Assessments | | | |
| Dedicated Reserve | - | | - |
| FY (Rollover) | 42,000.00 | | 32,782.94 |
| Admin Assessments | 40,000.00 | | 40,000.00 |
| Available | <u>82,000.00</u> | | <u>72,782.94</u> |
| Expenses | | | |
| Contract Staff | 50,000.00 | 50,000.00 | 16,600.00 |
| Legal Advisor | 7,000.00 | 7,000.00 | 11,250.00 |
| Filing fees and postage | | | 215.62 |
| Total Expenses | <u>57,000.00</u> | <u>57,000.00</u> | <u>28,065.62</u> |
| Total Available | 25,000.00 | | |
| Dedicated Reserve | <u>25,000.00</u> | | <u>25,000.00</u> |
| Net Available | <u><u>-</u></u> | | <u><u>19,717.32</u></u> |

Seaside Groundwater Basin Watermaster
Budget vs. Actual Monitoring & Management - Operations Fund
 Fiscal Year (January 1 - December 31, 2018)
 Balance through June 30, 2018

VI.B.
8/1/18

| | <u>2018 Adopted Budget</u> | <u>Contract Encumbrance</u> | <u>Year to Date Revenue/Expenses</u> |
|------------------------------------------------------------------------|----------------------------|-----------------------------|--------------------------------------|
| Available Balances & Assessments | | | |
| Operations Fund Assessment | \$ 192,288.00 | \$ - | \$ 192,288.00 |
| Pass Through 2018 | - | 3,915.00 | - |
| Cost Share Reimbursement | 77,185.00 | 77,185.00 | - |
| FY 2017 Rollover | 100,000.00 | - | 218,732.19 |
| Total Available | \$ 369,473.00 | \$ 81,100.00 | \$ 411,020.19 |
| Appropriations & Expenses | | | |
| GENERAL | | | |
| Technical Project Manager | \$ 50,000.00 | \$ 50,000.00 | \$ 19,650.00 |
| Contingency @ 10% (not including TPM) | 29,043.00 | - | - |
| Total General | \$ 79,043.00 | \$ 50,000.00 | \$ 19,650.00 |
| CONSULTANTS (Hydrometrics; Todd Groundwater; Web Site Database) | | | |
| Program Administration | \$ 16,900.00 | \$ 15,300.00 | \$ 5,763.75 |
| Production/Lvl/Qlty Monitoring | 2,400.00 | | |
| Groundwater Modeling | | | 49,812.50 |
| Basin Management Action Plan | 169,630.00 | 54,370.00 | - |
| Seawater Intrusion Analysis Report | 20,890.00 | 20,890.00 | - |
| Total Consultants | \$ 209,820.00 | \$ 90,560.00 | \$ 55,576.25 |
| MPWMD | | | |
| Production/Lvl/Qlty Monitoring | \$ 48,832.00 | 48,832.00 | - |
| Pass Through 2018 | - | 3,915.00 | - |
| Basin Management | - | | - |
| Seawater Intrusion | 1,192.00 | 1,192.00 | - |
| Direct Costs | - | - | - |
| Total MPWMD | \$ 50,024.00 | \$ 53,939.00 | \$ - |
| CONTRACTOR (Martin Feeney) | | | |
| Production/Lvl/Qlty Monitoring | \$ 30,586.00 | \$ 30,585.56 | \$ 10,234.67 |
| Total Appropriations & Expenses | \$ 369,473.00 | \$ 225,084.56 | \$ 85,460.92 |
| Total Available | - | | 325,559.27 |

| Seaside Groundwater Basin Watermaster | | | | | | | | | | | | | ITEM VI.B. | | |
|------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------------|-----------------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------------|-----------------------|----------------------------------|
| Replenishment Fund | | | | | | | | | | | | | 8/1/18 | | |
| Water Year 2018 (October 1 - September 30) / Fiscal Year (January 1 - December 31, 2018) | | | | | | | | | | | | | | | |
| Balance through June 30, 2018 | | | | | | | | | | | | | | | |
| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | Totals WY 2006 Through 2017 | Budget WY 2018 | Projected Totals Through WY 2018 |
| Replenishment Fund | WY 05/06 | WY 06/07 | WY 07/08 | WY 08/09 | WY 09/10 | WY 10/11 | WY 11/12 | WY 12/13 | WY 13/14 | WY 14/15 | WY 15/16 | WY 16/17 | | WY 17/18 | |
| Assessments: | \$1,132 / \$283 | \$1,132 / \$283 | \$2,485 / \$621.25 | \$3,040 / \$760 | \$2,780 / \$695 | \$2,780 / \$695 | \$2,780 / \$695 | \$2,780 / \$695 | \$2,702 / \$675.50 | \$2,702 / \$675.50 | \$2,702 / \$675.50 | \$2,872 / \$718 | | \$2,872 / \$718 | |
| Unit Cost: | | | | | | | | | | | | | | | |
| Cal-Am Water Balance Forward | \$ - | \$ 1,641,004 | \$ 4,226,710 | \$ (2,871,690) | \$ (2,839,939) | \$ (3,822,219) | \$ (6,060,164) | \$ (8,735,671) | \$ (6,173,771) | \$ (3,102,221) | \$ (676,704) | \$ (676,704) | | \$ (491,747) | |
| Cal-Am Water Production | 3710.0 AF | 4059.9 AF | 3862.9 AF | 2966.0 AF | 3713.5 AF | 3416.0 AF | 3070.9 AF | 3076.6 AF | 3070.9 AF | 3076.6 AF | 3076.6 AF | 3076.6 AF | | | |
| Exceeding Natural Safe Yield | | | | | | | | | | | | | | | |
| Consideration Alternative Producers | 2,106,652 | 2,565,471 | 5,199,014 | 3,773,464 | 4,112,933 | 3,187,854 | 2,280,943 | 2,380,842 | 2,790,539 | 2,113,414 | - | 184,957 | \$ 30,696,083 | 100,000 | \$ 30,796,083 |
| Operating Yield Overproduction | | | | | | | | | | | | | | | |
| Replenishment | - | 20,235 | 8,511 | - | - | - | 154,963 | 181,057 | 281,012 | 312,103 | - | - | 957,881 | 20,000 | 977,881 |
| Total California American | \$ 2,106,652 | \$ 2,585,706 | \$ 5,207,525 | \$ 3,773,464 | \$ 4,112,933 | \$ 3,187,854 | \$ 2,435,907 | \$ 2,561,899 | \$ 3,071,550 | \$ 2,425,516 | | \$ 184,957 | \$ 31,653,964 | \$ 120,000 | \$ 31,773,964 |
| CAW Credit Against Assessment | (465,648) | | (12,305,924) | \$ (3,741,714) | (5,095,213) | (5,425,798) | (5,111,413) | - | - | - | - | - | (32,145,711) | | (32,145,711) |
| CAW Unpaid Balance | \$ 1,641,004 | \$ 4,226,710 | (2,871,690) | (2,839,939) | (3,822,219) | (6,060,164) | (8,735,671) | (6,173,771) | (3,102,221) | (676,704) | (676,704) | (491,747) | (491,747) | (371,747) | (371,747) |
| City of Seaside Balance Forward | \$ - | \$ 243,294 | \$ 426,165 | \$ 1,024,272 | \$ 1,619,973 | \$ 891,509 | \$ (110,014) | \$ (773,813) | \$ (1,575,876) | \$ (2,889,325) | \$ (3,346,548) | \$ (3,232,420) | | \$ (3,142,500) | |
| City of Seaside Municipal Production | 332.0 AF | 387.7 AF | 294.3 AF | 293.4 AF | 282.9 AF | 240.7 AF | 233.7 AF | 257.7 AF | 223.6 AF | 223.6 AF | 185.01 AF | | | | |
| Exceeding Natural Safe Yield | | | | | | | | | | | | | | | |
| Consideration Alternative Producers | 219,689 | 174,082 | 402,540 | 465,300 | 314,721 | 141,335 | 163,509 | 236,782 | 142,410 | 69,630 | 102,330 | 87,512 | \$ 2,519,838 | 100,000 | \$ 2,619,838 |
| Operating Yield Overproduction | | | | | | | | | | | | | | | |
| Replenishment | 12,622 | 85 | 4,225 | 16,522 | 20,690 | - | 1,689 | 27,007 | 3,222 | 38 | 11,959 | 2,409 | 100,467 | 10,000 | 110,467 |
| Total Municipal | 232,310 | 174,167 | 406,764 | 481,823 | 335,412 | 141,335 | 165,198 | 263,788 | 145,631 | 69,667 | 114,290 | 89,920 | 2,620,305 | 110,000 | 2,730,305 |
| City of Seaside - Golf Courses | | | | | | | | | | | | | | | |
| Exceeding Natural Safe Yield - Alternative Producer | | | 131,705 | 69,701 | - | - | - | - | - | - | - | - | 201,406 | - | 201,406 |
| Operating Yield Overproduction | | | | | | | | | | | | | | | |
| Replenishment | | | 32,926 | 17,427 | - | - | - | - | - | - | - | - | 50,353 | - | 50,353 |
| Total Golf Courses | | | 164,631 | 87,128 | | | | | | | | | 251,759 | | 251,759 |
| Total City of Seaside | \$ 232,310 | \$ 174,167 | \$ 571,395 | \$ 569,951 | \$ 335,412 | \$ 141,335 | \$ 165,198 | \$ 263,788 | \$ 145,631 | \$ 69,667 | \$ 114,290 | \$ 89,920 | \$ 2,872,064 | \$ 110,000 | \$ 2,982,064 |
| City of Seaside Late Payment 5% | 10,984 | 8,704 | 26,712 | 26,750 | 15,737 | - | - | - | - | - | - | - | 88,887 | - | 88,887 |
| In-lieu Credit Against Assessment | | | | | (1,079,613) | (1,142,858) | (828,996) | (1,065,852) | (1,459,080) | (526,890) | (162) | - | (6,103,451) | - | (6,103,451) |
| City of Seaside Unpaid Balance | \$ 243,294 | \$ 426,165 | \$ 1,024,272 | \$ 1,619,973 | \$ 891,509 | \$ (110,014) | \$ (773,813) | \$ (1,575,876) | \$ (2,889,325) | \$ (3,346,548) | \$ (3,232,420) | \$ (3,142,500) | (3,142,500) | (3,032,500) | (3,032,500) |
| Total Replenishment Fund Balance | \$ 1,884,298 | \$ 4,652,874 | \$ (1,847,417) | \$ (1,219,966) | (2,930,710) | (6,170,178) | (9,509,483) | (7,749,648) | (5,991,546) | (4,023,252) | (3,909,125) | (3,634,247) | (3,634,247) | (3,404,247) | (3,404,247) |
| Replenishment Fund Balance Forward | - | \$ 1,884,298 | \$ 4,652,874 | \$ (1,847,417) | (2,930,710) | (6,170,178) | (9,509,483) | (7,749,648) | (5,991,546) | (4,023,252) | (3,909,125) | (3,634,247) | | (3,634,247) | |
| Total Replenishment Assessments | 2,349,946 | 2,768,576 | 5,805,632 | 4,369,165 | 4,464,082 | 3,329,189 | 2,601,104 | 2,825,688 | 3,217,182 | 2,495,183 | 114,290 | 274,877 | 34,614,915 | 230,000 | 34,844,915 |
| Total Paid and/or Credited | (465,648) | - | (12,305,924) | (3,741,714) | (6,174,826) | (6,568,657) | (5,940,409) | (1,065,852) | (1,459,080) | (526,890) | (162) | - | (38,249,162) | - | (38,249,162) |
| Grand Total Fund Balance | \$ 1,884,298 | \$ 4,652,874 | \$ (1,847,417) | (2,930,710) | (6,170,178) | (9,509,483) | (7,749,648) | (5,991,546) | (4,023,252) | (3,909,125) | (3,634,247) | (3,634,247) | (3,634,247) | (3,404,247) | (3,404,247) |

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

TO: Board of Directors

FROM: Robert S. Jaques, Technical Program Manager

DATE: July 24, 2018

SUBJECT: Technical Memorandum from HydroMetrics on Updating and Recalibrating the Seaside Basin Groundwater Model

RECOMMENDATIONS:

Accept the Recalibrated and Updated Seaside Basin Groundwater Model and Approve it for Use in Performing Future Modeling within the Seaside Basin

BACKGROUND:

HydroMetrics has completed work on recalibrating and updating the Seaside Basin Groundwater Model under its RFS No. 2018-03.

A draft copy of their Technical Memorandum describing this work was discussed at the TAC's June 13, 2018 meeting. An updated copy of that document (reflecting deletion of a few editorial comments as requested by a TAC member at the June 13 meeting) is posted on the Watermaster's website in the August 1, 2018 date tab, and the Conclusions section of that document is attached.

DISCUSSION:

At its June 13 meeting the TAC determined that it would be worthwhile to have Gus Yates of Todd Groundwater review the Technical Memorandum to see if he had any comments or concerns that he felt should be addressed before the updated model is used. The Watermaster has an on-call/as-requested consulting services agreement with Todd Groundwater so the Watermaster can draw upon Mr. Yates experience and expertise in groundwater management issues for the Seaside Basin.

Mr. Yates' review Memo is attached. His Memo states that he concurs with the HydroMetrics Technical Memorandum. He commented that performing the review was easy, that it was good to see that additional testing improved model results, and that he thinks the updated model is fine for continued use.

At its July 11, 2018 meeting the TAC reviewed Mr. Yate's Memo and was satisfied that the recalibrated and updated Model should be used for future modeling work in the Seaside Basin. The TAC approved the Updated Draft Technical Memorandum and directed the Technical Program Manager to forward the TAC's findings to the Board.

A copy of the Conclusions section of HydroMetrics' Technical Memorandum is attached in Attachment 1.

FISCAL IMPACTS:

There are no fiscal impacts associated with accepting the recalibrated and updated Model for use in performing future modeling work in the Seaside Basin.

ATTACHMENTS:

1. Conclusions Section of the Technical Memorandum from HydroMetrics on Updating and Recalibrating the Seaside Basin Groundwater Model
2. Letter from Gus Yates Containing His Findings and Recommendations Based on His Review of the Technical Memorandum

Conclusions

1. Simulated groundwater levels are sensitive to the specified heads along the northeastern boundary with the Salinas Valley. The behavior of the boundary was found to impact the calibration of areas of the model at some distance from the boundary. It was found that in the absence of the most recent Salinas Valley Integrated Hydraulic Model (SVIHM), currently being developed by the USGS, assigning boundary head elevations that match the general observed average groundwater levels along the boundary is more important than capturing smaller scale seasonal fluctuations along the boundary. It is recommended that when the SVIHM has been completed, an assessment of how well it simulates historical groundwater conditions in the Seaside Basin be conducted. If it is concluded that the new data improves simulation of groundwater level in the Seaside Basin, the boundary condition can be revised using parts of the SVIHM that improve model calibration of the Seaside Basin model.
2. The model recalibration improved calibration statistics over the original 2009 model calibration. As a result, simulated groundwater levels throughout the model, as a whole, better match observed groundwater levels.
3. The groundwater model should be updated in a maximum of five years and its calibration reevaluated at that time. However, if groundwater related projects are implemented in the basin before that time, the update and calibration reevaluation may need to be performed sooner.

5 July 2018

MEMORANDUM

To: Bob Jaques, Seaside Basin Watermaster Technical Program Manager
From: Gus Yates, Senior Hydrologist
Re: Peer Review of Seaside Basin Groundwater Model Update

I have reviewed the technical memorandum dated June 8, 2018 titled "Seaside Basin Groundwater Model Update" by HydroMetrics WRI. I was pleased to see that new sensitivity tests were performed and that those led to substantial improvements in model calibration. In particular, revision of the constant head levels used to represent the boundary with the Salinas Valley Basin improved the match between simulated and measured historical water levels at 12 wells, while the match became only slightly worse at four wells (City of Seaside 3, Del Monte Test, PCA-E Shallow and Justin Court (RR M2S)). Hydrographs at the remaining 25 calibration wells remained about the same as before. The residuals statistics all improved noticeably since the previous model update in 2014.

I was mildly surprised that the model was not very sensitive to the rate of distributed rainfall recharge. It would have been helpful to state the magnitude of change in average annual recharge that was implemented in the test. If the change was small, then simulated water levels would not be expected to change much either. The inability of the PEST automated calibration software to improve the estimates of hydraulic conductivity and storativity is reassuring and instructive. It demonstrates that manual calibration can be reliable and that automated methods might not discover the variables that need adjusting, which in this case turned out to be the northeastern boundary heads.

I agree with the conclusions stated in the model update memorandum, which are that the model performs well (actually better than before), that boundary heads from the new USGS model of the Salinas Valley should be evaluated for use along the northeastern boundary of the Seaside model, and that updating the model and checking its calibration every 5 years or so is advisable.

SEASIDE GROUNDWATER BASIN
WATERMASTER

TO: Board of Directors

FROM: Robert S. Jaques, Technical Program Manager

DATE: August 1, 2018

SUBJECT: Purchase of HydroMetrics by Montgomery and Associates, Consider Issuance of a Professional Services Agreement with Montgomery and Associates, and Consider Reissuance of Existing HydroMetrics Contracts to Montgomery and Associates

RECOMMENDATIONS:

1. Execute a Professional Services Agreement with Montgomery and Associates to replace the existing Agreement with HydroMetrics.
2. Cancel both of the existing ongoing Requests for Service with HydroMetrics, and re-issue them to Montgomery and Associates with the same terms and conditions as the existing ones.

BACKGROUND:

In late June I was informed by Derrik Williams of HydroMetrics that HydroMetrics was being acquired by Errol L. Montgomery & Associates of Tucson, Arizona effective July 1, 2018. He said that as of that date HydroMetrics would no longer be an entity, and that HydroMetrics' staff members would become employees of Montgomery and Associates. Mr. Williams said that since HydroMetrics would no longer be an entity as of July 1, that effective on that date HydroMetrics' contracts should be assigned to Montgomery and Associates.

DISCUSSION:

I responded to Mr. Williams asking him to give me some background on what brought this on and whether the former HydroMetrics firm would continue to exist essentially unchanged in terms of size, staff members, fees, capabilities, etc., and whether he and Georgina King (a Senior Hydrogeologist at HydroMetrics who has performed much of their work for the Watermaster under Mr. William's supervision) would continue to be the staff with whom the Watermaster would normally interact.

Mr. Williams provided this explanation regarding the organizational change:

Mr. Williams and Ms. King will definitely remain as our points of contact and they will be the two people with whom we will regularly work. There may be additional modelers or graphic artists on the invoices, but the public face of the company will not change. He is committed to providing us the same attention and service that HydroMetrics always has. With more company resources, however, the service should be even better.

This has been in the works for a couple years. With the new Sustainable Groundwater Management Act, there are simply not enough groundwater hydrologists in the state to cover

all the work that is coming up. HydroMetrics wanted to grow into new clients but could not do it with its existing staff because they are committed to their existing clients. Therefore, he was looking for a way to grow his staff with hydrogeologists who are not committed to other California clients. He was approached by a number of companies who were hoping to grow their groundwater staff. Montgomery & Associates was attractive to him for a number of reasons. One is that he has known many of the principles of Montgomery and Associates for over 30 years. He has found them to be a great group of people who have the same technical expertise and commitment to both clients and employees that HydroMetrics currently has. Another is that they are a groundwater focused company. He did not want to simply become a small arm of a large engineering firm, he wanted to remain a groundwater focused firm.

For the Watermaster, Mr. Williams feels there are only upsides. We will still work with Mr. Williams and Ms. King. Montgomery and Associates will occupy HydroMetrics' former Oakland office and will have the same personnel locally and the same financial structure. However, the staff there will be supported by a much larger group of hydrogeologists who can be more responsive to our questions.

He went on to say that he is working with Montgomery & Associates staff on the Paso Robles Groundwater Sustainability Plan (GSP), and will start work with them soon on the Salinas Valley GSP.

The TAC discussed this matter at its July 11, 2018 meeting. With Mr. Williams explanation and assurances, the TAC was comfortable with the change in ownership. The TAC recommended that as part of contracting with Montgomery & Associates, there should be language in the Professional Services Agreement (PSA) with Montgomery and Associates to the effect that:

Because of the personal nature of the services to be rendered pursuant to this Agreement, Derrick Williams and/or Georgina King shall oversee the services described in this Agreement. These persons may use assistants under their supervision to perform services under this Agreement. The Consultant shall provide Watermaster fourteen (14) days' notice prior to the departure of either of these persons from the Consultant's employ. Should either of these persons leave the Consultant's employ, the Watermaster shall have the option to immediately terminate this Agreement, within three (3) days of the close of said notice period. Upon termination of this Agreement, the Consultant's sole compensation shall be payment for actual services performed up to, and including, the date of termination or as may be otherwise agreed to in writing between the Watermaster and the Consultant.

In terms of ongoing work with HydroMetrics, there currently are two HydroMetrics contracts (referred to as "Requests for Service" [RFS] within their PSA) with remaining work to be done on them. One is to prepare the 2018 Seawater Intrusion Analysis Report, and one is to continue providing on-call/as-needed consulting services.

The TAC approved taking the following actions:

1. Incorporate the language shown in italics above into a new PSA to be executed between Montgomery and Associates and the Watermaster. This new PSA would replace the existing PSA with HydroMetrics. Note: The Watermaster uses its standard PSA with all of its consultants. The PSA includes all of the typical "boilerplate" requirements and conditions for

the performance of work by consultants to the Watermaster. The PSA itself does not authorize any work to be done, or any costs to be incurred by the Watermaster. When actual work to be done is authorized, it is authorized through the issuance of an RFS under the PSA. The RFS specifies the scope of work to be done and the costs associated therewith.

2. Cancel both of the existing ongoing RFSs with HydroMetrics, and re-issue them to Montgomery and Associates with the same terms and conditions as the existing ones.
3. Take these actions to the Board for its approval at its next meeting.

FISCAL IMPACTS:

Since the existing RFSs with HydroMetrics would be re-issued to Montgomery and Associates with the same costs as the existing RFSs, there will be no fiscal impact from assigning HydroMetrics' existing contracts to Montgomery and Associates.

ATTACHMENTS:

1. Listing of the topics covered in the Watermaster's standard Professional Services Agreement. The complete Professional Services Agreement with Montgomery and Associates is provided on the Watermaster's website in the August 1, 2018 date tab.
2. Request for Service 2018-01 with Montgomery and Associates (for providing on-call/as-needed consulting services)
3. Request for Service 2018-02 with Montgomery and Associates (for preparing the 2018 Seawater Intrusion Analysis Report)

| |
|--------------|
| ATTACHMENT 1 |
|--------------|

- ADHERENCE TO TERMS OF AGREEMENT
- EMPLOYMENT
- WORK ASSIGNMENTS
- TIME OF PERFORMANCE
- COMPENSATION
- TERMINATION
- WATERMASTER LIABILITY
- SECTION VIII: CHANGES
- DUTIES OF WATERMASTER
- DATA FURNISHED BY WATERMASTER
- RESPONSIBILITIES OF PROFESSIONAL
- SUBCONTRACT
- INDEPENDENT PROFESSIONAL
- USE OF DOCUMENTS
- AMENDMENTS AND SCOPE OF AGREEMENT
- SUCCESSORS AND ASSIGNS
- ATTORNEYS' FEES
- JURISDICTION
- INSURANCE
- INDEMNIFICATION
- WRITTEN NOTICE

ATTACHMENT 2

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: July 1, 2018 **RFS NO.** 2018-01 (To
be filled in by WATERMASTER)

TO: Hale Barter **FROM:** Robert Jaques
PROFESSIONAL WATERMASTER

Services Needed and Purpose: General hydrogeologic consulting and document preparation services. See Scope of Work in Attachment 1.

Completion Date: All work of this RFS shall be completed not later than December 31, 2018, 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: \$ 5,000.00 (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

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, BMAP and SIRP implementation issues, and preparation of documents for WATERMASTER's use in fulfilling its Sustainable Groundwater Management Act reporting requirements.

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 2018 Monitoring and Management Program (M&MP) to which this RFS No. 2018-01 pertains are:

- M. 1. c - Preparation and Attendance of Meetings
- M. 1. e - Peer Review of Documents and Reports

ESTIMATED COSTS

Tasks M.1.c and M.1.d: General Consulting Services will consist of working on these Tasks and attending some TAC and other meetings either via telephone or in-person in Monterey, as requested by WATERMASTER.

\$4,500 in labor costs of this RFS No. 2018-01 are allocated to performing work on these Tasks. In addition to these hourly labor costs, an allowance of \$500.00 is included in for these Tasks to cover travel and other incidental costs associated with the performance of this work.

All work under this RFS No. 2018-01 will be billed at the following hourly rates, including all markups and other direct costs:

Derrick Williams = \$220.00/hour Georgina King = \$195.00/hour

The total cost authorized by this RFS No. 2018-01 is \$5,000.00.

ATTACHMENT 2
SCHEDULE

**Montgomery and Associates RFS No. 2018-01
Work Schedule**

| ID | Task Name | 2018 | | | | | | | | | | | | | | | | | |
|----|--------------------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | A |
| 1 | M. 1. c - Preparation and Attendance of Meetings | | | | | | | | | | | | | | | | | | |
| 2 | M. 1. e - Peer Review of Documents and Reports | | | | | | | | | | | | | | | | | | |

ATTACHMENT 3

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: 7/1/2018 **RFS NO.** 2018-02
(To be filled in by WATERMASTER)

TO: Hale W. Barter **FROM:** Robert Jaques
PROFESSIONAL WATERMASTER

Services Needed and Purpose: Prepare the Seawater Intrusion Analysis Report for 2018. See Scope of Work in Attachment 1.

Completion Date: All work of this RFS shall be completed not later than December 31, 2018, 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: \$ 20,890.00 (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

Agreed to by: _____ Date: _____
PROFESSIONAL

ATTACHMENT 1

SCOPE OF WORK

The scope consists of providing professional consulting services to WATERMASTER for preparation of the 2018 Seawater Intrusion Analysis Report (SIAR).

To promote efficiency, much of the text and graphics from the 2017 SIAR will be incorporated directly into the 2018 SIAR.

Preparing the 2018 SIAR will involve analyzing all water quality data at the end of Water Year 2018 (October 1, 2017 to September 30, 2018) and producing semi-annual (2nd and 4th quarters 2017) 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 2018 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 2018 SIAR. A CD containing an electronic version of the entire Final 2018 SIAR in MS Word and up to 15 printed and bound copies of the Final 2018 SIAR (quantity to be determined by WATERMASTER) will be provided to WATERMASTER.

ATTACHMENT 2

| Montgomery and Associates RFS No. 2018-02 Work Schedule | | 2018 | | | | | | | | | | | | | | | | | |
|--------------------------------------------------------------------|-----------------------------------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|-----|-----|-----|
| ID | Task Name | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
| 1 | I.4.c Annual Seawater Intrusion Analysis Report (SIAR) | | | | | | | | | | | | | | | | | | |
| 2 | Professional Provides Draft SIAR to Watermaster | | | | | | | | | | | ◆ 11/13 | | | | | | | |
| 3 | TAC Approves Annual Seawater Intrusion Analysis Report (SIAR) | | | | | | | | | | | ◆ 11/21 | | | | | | | |
| 4 | Board Approves Annual Seawater Intrusion Analysis Report (SIAR) | | | | | | | | | | | ◆ 12/5 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

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.

| Task | Hours | | Costs | | | |
|------------------------------------------------|---------------------------------|------------------------------|-----------------|------------------|-----------------|------------------|
| | Georgina King (\$195 per hr) | Nick Byler (\$120 per hr) | Georgina King | Nick Byler | Expenses | Total Costs |
| 2018 Seawater Intrusion Analysis Report | | | | | | |
| Produce 2018 SIAR | 32 | 100 | \$ 6,240 | \$ 12,000 | \$ 500 | \$ 18,740 |
| Attend One TAC Meeting in Monterey | 10 | 0 | \$ 1,950 | \$ - | \$ 200 | \$ 2,150 |
| TOTALS | 42 | 100 | \$ 8,190 | \$ 12,000 | \$ 1,200 | \$ 20,890 |

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

TO: Board of Directors

FROM: Robert S. Jaques, Technical Program Manager

DATE: August 1, 2018

SUBJECT: Montgomery & Associates Contract to Update the Basin Management Action Plan

RECOMMENDATIONS:

BACKGROUND:

In the approved Monitoring and Management Program (M&MP) for 2018, and in its associated approved budget, there is a task to update the Basin Management Action Plan (BMAP). The amount included in the approved 2018 budget to perform this work is \$45,260.

DISCUSSION:

Attached is a Request for Service to be issued to the new owner of HydroMetrics, Montgomery and Associates, to perform that work. The Scope of Work and cost in the RFS were taken directly from the scope and cost proposal the TAC reviewed at its August 9, 2017 meeting. At that same meeting the TAC recommended going ahead with updating the BMAP.

The TAC discussed this RFS at its July 11, 2018 meeting and unanimously approved proceeding with issuing the RFS to update the Basin Management Action Plan.

This RFS would be the third one to be issued to Montgomery and Associates. The first two would be covered under Consent Agenda item VI.C to replace the two ongoing ones with HydroMetrics (Seawater Intrusion Analysis Report and on-going/as-needed consulting services). Therefore, this would be RFS No. 2018-03 to Montgomery and Associates.

FISCAL IMPACTS:

Since the proposed RFS to be issued to Montgomery and Associates has the same scope of work and costs as the proposal originally received from HydroMetrics, there will be no change in the fiscal impact from having Montgomery and Associates rather than HydroMetrics perform this work.

ATTACHMENTS:

Montgomery and Associates RFS No. 2018-03 to update the Basin Management Action Plan

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: _____

RFS NO. 2018-03

(To be filled in by WATERMASTER)

TO: Hale Barter
PROFESSIONAL

FROM: Robert Jaques
WATERMASTER

Services Needed and Purpose: Update the Seaside Groundwater Basin Basin Management Action Plan. This work will be comprised of Task 2 (including all Subtasks under Task 2) as described in the Scope of Work in Attachment 1.

Completion Date: All work of this RFS shall be completed not later than November 30, 2018, and shall be performed in accordance with the Schedule described in Attachment 1.

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

Total Price Authorized by this RFS: \$ 45,260.00 (Cost is authorized only when evidenced by signature below.) (See Table 1 in Attachment 1 for Detailed Breakdown of Estimated Costs for Task 2).

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

Agreed to by: _____ Date: _____
PROFESSIONAL



1814 Franklin St., Suite 501
Oakland, CA 94612

Mr. Robert S. Jaques
Seaside Groundwater Basin Watermaster
83 Via Encanto
Monterey, CA 93940

August 4, 2017

Subject: Revised Scope and Cost to Update the Seaside Basin Management Action Plan

Mr. Jaques:

Thank you for the opportunity to provide you with this scope and cost to update the Seaside Groundwater Basin's Basin Management Action Plan (BMAP). The scope we have put together addresses the BMAP items that were presented at the February 2017 Technical Advisory Committee meeting, and includes some of the recommendations made by Gus Yates of Todd Groundwater.

The Watermaster's first BMAP was completed in February 2009 (HydroMetrics LLC, 2009a). The BMAP constitutes the basic plan for managing the Seaside Groundwater Basin. The BMAP identifies both short-term actions and long-term strategies intended to protect the groundwater resource while maximizing the beneficial use of groundwater in the basin. It provides the Watermaster a logical set of actions that can be undertaken to manage the basin to its Safe Yield. Over the eight years since the BMAP was completed, the Watermaster has collected much groundwater level and quality data, and conducted various studies to improve the understanding of the basin. This improved understanding should be incorporated into an updated BMAP to facilitate ongoing responsible management of the groundwater resource.

At the time the 2009 BMAP was prepared, a groundwater model had not yet been developed for the basin, and the analysis contained in the BMAP was completed using analytical methods. Following the BMAP recommendation that a groundwater model be

constructed to assist with groundwater management decisions, a calibrated model was completed in November 2009 (HydroMetrics LLC, 2009b). The model simulated groundwater conditions in the basin between January 1987 and December 2008. In 2014, the model was updated with data through September 2013 (HydroMetrics WRI, 2014) but not recalibrated because its accuracy was still acceptable. The 2014 update found that the uncalibrated portion of the model (January 2009 – September 2013) tended to simulate higher groundwater levels than measured levels. Periodic recalibration of the model is necessary to ensure the model simulates groundwater levels within an acceptable industry standard accuracy. If simulated groundwater levels are not accurate this reduces the accuracy of all output from the model such as groundwater storage and water budget.

The scope of work provided below assumes the model will be used to develop estimates of groundwater storage, water budget, and safe yield; and to test impacts of potential management actions. The groundwater model was developed to assist in making basin management decisions, and for providing the simulated results that are required for analysis in the BMAP. As the model currently only includes input data through September 2013, groundwater storage, water budget, and safe yield estimates can only reliably be obtained from the model up through Water Year 2013. The model needs to be updated through Water Year 2016 to be used for current estimates. It is likely recalibration of the model will be required so that it more accurately simulates the historic low groundwater levels currently occurring in the basin.

The scope outlined below starts with an update and recalibration of the groundwater model, and then generally updates each of the main sections of the BMAP.

Task 1: Update Seaside Basin Groundwater Flow Model.

Subtask 1.1. Update Model Input Data.

Groundwater production, groundwater levels, injected water, and precipitation data will be sourced and compiled for input into the groundwater model. In addition to precipitation, estimates of storm water percolation, septic tank leakage, and system losses are also needed as they all contribute to the recharge of the basin. Most data are already available from MPWMD or Watermaster, but some other pumpers such as Cal Water Service and Marina Coast Water District, which do not fall under the Watermaster will be contacted for their data.

The updated model input data will be incorporated into the groundwater model. Once the model has been updated and is successfully running, hydrographs comparing measured and simulated groundwater levels will be prepared. The hydrographs produced will be the same ones used in the 2009 model report.

Subtask 1.2. Model Recalibration.

Model calibration is a process that involves varying relatively uncertain and sensitive parameters such as horizontal and vertical hydraulic conductivities, over a reasonable range of values. Per Mr. Yates's recommendation, we will jointly calibrate recharge and aquifer parameters. This is a change from our previous calibration approach of only calibrating aquifer parameters. Calibration will be completed when simulated results match the measured data within an acceptable measure of accuracy, and when successive calibration attempts do not notably improve the calibration statistics. Parameter Estimation (PEST) software will be used as a tool to improve calibration.

Estimating the effort involved in model calibration is difficult because there is no defined set of steps that can be followed. The costs provided with this scope reflect our best estimate, but additional costs may be necessary to complete calibration successfully.

Subtask 1.3. Model Update Technical Memorandum.

A Draft Technical Memorandum will be prepared documenting the model update and calibration results. After presenting the Tech Memo to the TAC and receiving comments, a Final Tech Memo will be prepared for submission to the Board. For purposes of the cost estimate, we have assumed HydroMetrics WRI will present the findings to the TAC and to the Board. One presentation will be in-person and one will be by telephone.

Task 2: Update BMAP Section 2 - State of the Seaside Groundwater Basin.

Subtask 2.1. Update Basin Conceptual Model. Since the 2009 BMAP was completed, a significant amount of modeling has been undertaken that has assisted in improving our hydrogeologic understanding of the basin. Additionally, a few new wells have been drilled that may improve our understanding of basin geometry. Below is a list of recent developments that will be used to update our conceptual understanding of the basin:

- Modeling work we completed related to the locations of flow divides in the eastern part of the Laguna Seca subarea and how pumping outside of the basin affects groundwater within the basin.
- The concept of the Laguna Seca Anticline as only a partial barrier to groundwater flow is relatively recent. We will present data and implications related to that reconceptualization.
- New wells, such as the Pure Water Monterey ASR wells and the MPWMD ASR wells, may provide new data related to aquifer depths and bottom of the basin that could improve the conceptual understanding of the basin.
- Groundwater levels collected over the past eight years may provide an undated definition of the basin's northeastern flow-divide boundary.

Subtask 2.2. Analyze Groundwater Levels Trends. Since 2009, eight years of groundwater level data have been collected, some of it using data loggers that record groundwater levels multiple times a day. This has allowed us to vastly improve our understanding of both seasonal and long-term trends. The basin has also experienced a recent drought and Court-mandated pumping reductions. How groundwater levels have responded to these changes has also improved our understanding of the basin. Furthermore, protective groundwater elevations developed after the 2009 BMAP should be included and discussed in an updated BMAP.

Subtask 2.3. Update Estimates of Groundwater Storage. The updated BMAP will include updates of estimated total stored groundwater, usable storage space, and total useable storage space. The Watermaster is required under the Decision to recalculate Total Usable Storage Space and adjust the allocation as needed.

The groundwater model and protective groundwater elevations should be used to quantify these storage estimates for the Seaside Basin. The 2009 BMAP did not have the benefit of site specific protective elevations and thus used Ghyben-Herzberg generated elevations. This updated BMAP will instead use protective elevations developed using groundwater models that estimate onshore groundwater elevations that keeps the productive onshore aquifers fresh (HydroMetrics LLC, 2009b).

Subtask 2.4. Update Groundwater Budget. A long-term and current groundwater budget will be developed to enhance our understanding of the groundwater system, and how the basin has responded during the recent drought. Similar to Subtask 2.3, the groundwater budget can be readily generated from groundwater model output. However, the groundwater model needs to be updated through September 2016 and recalibrated for it be used reliably to evaluate the current and historical water budget.

Subtask 2.5. Review Natural Safe Yield Estimates. The State of California has experienced a recent drought which has impacted natural aquifer recharge more than was anticipated in the 2009 BMAP. Also, even though pumping in recent years has been below the amounts required under the Decision, groundwater levels have continued to fall. This suggests that the Natural Safe Yield of 3,000 AFY in the Decision may be too high.

The reevaluated Safe Yield will be compared against other Safe Yield estimates that were included in the 2009 BMAP. If appropriate, a revised Safe Yield to replace the Decision-established Natural Safe Yield of 3,000 AFY will be provided for basin management purposes.

Task 3: Update Section 3 – Supplemental Water Supplies.

This section will be primarily completed by Watermaster staff, and will be edited and integrated into the BMAP update by HydroMetrics WRI. Watermaster staff will update the old BMAP Section 3 with current information on projects being considered to meet the long-term water needs in the Seaside Basin. Included will be MRWPCA's Pure Water Monterey groundwater replenishment project and Cal Am's Monterey Peninsula Water Supply Project (MPWSP). Recent Environmental Impact Reports will be used to update the information. If any other projects are in early planning stage, they will also be included in the update.

In the revised cost estimate (Table 1), the number of hours has been reduced from our previous cost estimate in March to reflect that Watermaster staff will be responsible for the majority of this task.

Task 4: Update Section 4 – Groundwater Management Actions.

This section will be updated to reflect actions and interim water supplies that have already been implemented, eliminate actions that are no longer viable, and add potential future actions and interim water supplies that could be implemented to address basin imbalances in the short-term before the long-term supply projects in Section 3 of the BMAP can be permitted, built and operated.

An example of a local management action would be to identify optimal extraction well locations such that those wells can make more efficient use of useable stored groundwater. The groundwater model is the most appropriate tool for this as it is able to simulate cumulative impacts by taking into account long-term projects and any other short-term projects while optimizing well locations.

It is beyond the scope of the BMAP update to prepare preliminary costs for potential future actions and interim water supplies. However, as cost is an important factor in deciding which actions to pursue, the Watermaster may need to engage a financial expert to provide preliminary cost estimates for those actions that do not already have cost estimates associated with them.

Task 5: Update Section 5 – Recommended Management Strategies.

After developing the groundwater management actions, we will present the results to the TAC with the purpose of soliciting input that will allow each action to be ranked in order of preference. The top actions will become recommended management strategies that the Watermaster should consider going forward.

Task 6: Prepare Draft, Final Draft and Final Updated BMAP.

A Draft Updated BMAP will be prepared that follows the format of the 2009 BMAP. After the TAC has reviewed the Draft Updated BMAP, comments received will be incorporated into a Final Draft Updated BMAP that will be presented to the Board. If comments are received from the Board, these will be included in a Final Updated BMAP. Up to 15 bound hardcopies will be provided to the Watermaster. We assume that HydroMetrics WRI will attend one TAC and one Board meeting in person to present the Updated BMAP.

Estimated Budget

The total cost to update and recalibrate the groundwater model through September 2016, and to update the BMAP is provided in Table 1.

Schedule

We expect it will take two months to update and recalibrate the groundwater model. An updated BMAP draft can be completed in approximately six weeks after the model update.

References

HydroMetrics LLC. 2009a. Basin Management Action Plan. Seaside Groundwater Basin, Monterey County, California, prepared for Seaside Groundwater Basin Watermaster. February.

HydroMetrics LLC. 2009b. Seaside Groundwater Basin Modeling and Protective Groundwater Elevations, prepared for Seaside Groundwater Basin Watermaster. November.

HydroMetrics WRI. 2014. Technical Memorandum – 2014 Seaside Groundwater Model Update, prepared for Seaside Groundwater Basin Watermaster. July 31.

Please call if you have any questions.

Sincerely,



Georgina King
Principal Hydrogeologist
HydroMetrics Water Resources Inc.

Table 1: Cost Estimate for Basin Management Action Plan Update

| Tasks | HydroMetrics WRI Labor | | | Labor Total | | Other Direct Costs | TOTALS |
|-------------------------------------------------------------------------------|------------------------|--------------------------|--------------|-------------|------------------|--------------------|------------------|
| | Derrick Williams | Georgina King | Hanieh Haeri | | | | |
| | President | Principal Hydrogeologist | Hydrologist | Hours | (\$) | (\$) | (\$) |
| Task 1: Update Groundwater Model & Recalibrate | Rates | \$220 | \$195 | \$130 | | | |
| Subtask 1.1. Update Model Input Data | 8 | 24 | 40 | 72 | \$ 11,640 | \$ - | \$ 11,640 |
| Subtask 1.2. Model Recalibration | 45 | 10 | 140 | 195 | \$ 30,270 | \$ - | \$ 30,270 |
| Subtask 1.3. Model Update and Recalibration Technical Memorandum | 12 | 28 | 32 | 72 | \$ 12,280 | \$ 200 | \$ 12,480 |
| Subtotal Task 1 | 66 | 62 | 212 | 340 | \$ 54,170 | \$ 200 | \$ 54,370 |
| Task 2: Update BMAP Section 2 - State of the Seaside Groundwater Basin | | | | | | | |
| Subtask 2.1. Update Basin Conceptual Model | 2 | 16 | 4 | 22 | \$ 4,080 | \$ - | \$ 4,080 |
| Subtask 2.2. Analyze Groundwater Levels Trends | 1 | 16 | 4 | 21 | \$ 3,860 | \$ - | \$ 3,860 |
| Subtask 2.3. Update Estimates of Groundwater Storage | 5 | 10 | 16 | 31 | \$ 5,130 | \$ - | \$ 5,130 |
| Subtask 2.4. Update Groundwater Budget | 4 | 8 | 20 | 32 | \$ 5,040 | \$ - | \$ 5,040 |
| Subtask 2.5. Review of Natural Safe Yield Estimates | 3 | 8 | 12 | 23 | \$ 3,780 | \$ - | \$ 3,780 |
| Subtotal Task 2 | 15 | 58 | 56 | 129 | \$ 21,890 | \$ - | \$ 21,890 |
| Task 3: Update BMAP Section 3 – Supplemental Water Supplies | 1 | 4 | 0 | 5 | \$ 1,000 | \$ - | \$ 1,000 |
| Task 4: Update BMAP Section 4 – Groundwater Management Actions | 8 | 20 | 12 | 40 | \$ 7,220 | \$ - | \$ 7,220 |
| Task 5: Update BMAP Section 5 – Recommended Management Strategies | 4 | 10 | 0 | 14 | \$ 2,830 | \$ - | \$ 2,830 |
| Task 6: Prepare Draft, Final Draft and Final BMAP | 6 | 40 | 20 | 66 | \$ 11,720 | \$ 600 | \$ 12,320 |
| TOTAL for GROUNDWATER MODEL UPDATE | 66 | 62 | 212 | 340 | \$ 54,170 | \$ 200 | \$ 54,370 |
| TOTAL for BMAP UPDATE | 34 | 132 | 88 | 254 | \$ 44,660 | \$ 600 | \$ 45,260 |
| TOTAL | 100 | 194 | 300 | 594 | \$ 98,830 | \$ 800 | \$ 99,630 |

Notes

Other direct costs include travel expenses, office supplies, photocopies, postage, and equipment rental

HydroMetrics Water Resources Inc. • 1814 Franklin St., Suite 501 • Oakland, CA 94612
 (510) 903-0458 • (510) 903-0168 (fax)

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

TO: Board of Directors
FROM: Laura Dadiw, Administrative Officer
DATE: August 1, 2018
SUBJECT: Adjustment to the Watermaster 2018 Administrative Budget to cover unanticipated costs for services from Brownstein, Hyatt, Farber, Schreck (BHFS) (Russ McGlothlin)

RECOMMENDATIONS: Approve a \$10,000 adjustment to the 2018 Administrative Budget to reduce Contracted Services to \$40,000 and increase Legal Services to \$17,000

BACKGROUND:

In preparation for the 2018 Watermaster Administrative Fund Budget, Russ McGlothlin, taking into account that the 2018 Case Management Conference would be held telephonically, submitted a range of anticipated costs for services, and the low end estimate of \$7,000 was recommended by the Watermaster Budget and Finance Committee to be budgeted for 2018. Due to four unanticipated issues that administrative staff felt required legal review, BHFS expenses have exceeded the \$7,000 amount budgeted for legal services by \$4,250.00. The four issues include: 1) Marina Coast Water District proposal to sell water to Watermaster; 2) Security National Guaranty challenging the method of Alternative Production Allocation being converted to Standard Production Allocation; 3) Bishop, McIntosh, McIntosh proposed amendment to the Adjudication Decision; and 4) Public Records Act request for documents and Court filing.

DISCUSSION:

The \$4,250.00 amount expended in excess of that budgeted was provided to Watermaster by BHFS with its March through June invoices. It is anticipated that since the 2018 Watermaster Annual Report to Court is now due in January the balance of the expenses will most likely be billed by BHFS in January 2019 and will be covered in the 2019 budget once developed.

| | | |
|----------------------------------------|----------------------|-----------------|
| Case Management Statement and hearing: | BHFS Invoice #713998 | \$ 2,160.00 |
| Case Management Statement and hearing: | BHFS Invoice #715858 | 7,695.00 |
| CAW Production of LSRA APA: | BHFS Invoice #719016 | 90.00 |
| Bishop Mcintosh & Mcintosh: | BHFS Invoice #723575 | 405.00 |
| PRA Records Request: | BHFS Invoice #727294 | <u>900.00</u> |
| | Total | \$11,250.00 |
| | Budgeted | <u>7,000.00</u> |
| | Difference | \$ 4,250.00 |

FISCAL IMPACTS:

Administrative Officer (Dadiw) expenses are anticipated to total \$40,000 of the \$50,000 budgeted for 2018. A budget adjustment moving \$10,000 from the Contract Services (Administrative Officer) budget line to the Legal Services budget line will be made.

ATTACHMENTS:

BHFS invoices covering Case Management Statement work, court attendance, and unanticipated issues are available upon request.

D-R-A-F-T
MINUTES

**Seaside Groundwater Basin Watermaster
Technical Advisory Committee Meeting
March 14, 2018**

Attendees: TAC Members

City of Seaside – Scott Ottmar (via telephone) and Rick Riedl
California American Water – Nina Miller
City of Monterey – Laurie Williamson (via telephone)
Laguna Seca Property Owners – No Representative
MPWMD – Jon Lear (via telephone)
MCWRA – Tamara Voss
City of Del Rey Oaks – No Representative
City of Sand City – Leon Gomez (via telephone)
Coastal Subarea Landowners – No Representative

Watermaster

Technical Program Manager - Robert Jaques

Consultants

None

Others

M1W – Bob Holden

The meeting was convened at 1:46 p.m. after a quorum had been established. The meeting was moved from the Board Room to the Conference Room in an effort to improve the performance of the telephone conference call-in line. Persons joining the meeting by telephone reported that there was significant improvement in the sound quality, so future meetings will be held in the Conference Room whenever it is available.

1. Public Comments

There were no public comments.

2. Administrative Matters:

A. Approve Minutes from the February 14,2018 Meeting

On a motion by Ms. Voss, seconded by Mr. Gomez, the minutes from this meeting were unanimously approved as presented.

B. Sustainable Groundwater Management Act (SGMA) Update

Mr. Jaques summarized the agenda packet materials for this item.
There was no other discussion on this item.

C. Monterey Peninsula, Carmel Bay, and South Monterey Bay Integrated Regional Water Management

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

There was no other discussion on this item.

D. Monterey Peninsula Stormwater Resource Plan

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

Mr. Ottmar asked if recharging storm water from the Seaside area would provide any credit to the City of Seaside for creating such a project. Mr. Jaques said he was not aware of any provision in the Adjudication Decision that addresses that, but that this could be explored if desired. Mr. Ottmar also noted that such projects would need to get regulatory approval.

3. Draft Application for Storage of Water from the Pure Water Monterey Project

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

Mr. Holden commented that the Cal Am-M1W Pure Water Monterey agreement includes an increase of 1,750 acre-feet for Operational Reserve. He believed the 6,000 acre-foot figure in the proposed draft agreement should be increased to at least 6,500 acre-feet per year. Ms. Miller said she would check with Mr. Sabolsice on this and coordinate with Mr. Holden if any revisions to the application should be made. Mr. Jaques said that if any changes were desired, he would incorporate them into the version of the application that would go to the Board for its consideration.

Ms. Voss commented that she felt it was appropriate to include all of the support data (water quality information, permit information, etc.) contained in the version of the draft storage application in the agenda packet in order to make that information part of the record.

On a motion by Ms. Voss, seconded by Mr. Lear, the TAC unanimously approved the storage application as contained in the agenda packet. That approval included the latitude for Mr. Jaques to make any minor revisions, as discussed in the paragraph above, if so requested by Cal Am.

4. New proposal from MCWD to Sell Water to Replenish the Seaside Basin

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

Mr. Lear noted that with regard to Comment No. 2 in the agenda packet, if there was excess water not needed for golf course irrigation, it might be possible under the Adjudication Decision to have excess water traded between the Standard Producers. The question still remained of how any excess water could actually be utilized by other producers besides the Seaside golf courses.

Ms. Miller asked what the term of the agreement was, and it was reported that a 30-year term was proposed in the agreement.

Mr. Voss questioned why the Watermaster would want to get involved in purchasing the water.

Mr. Riedl commented that the golf courses have two wells that supply irrigation water. Water acquired by the City of Seaside from MCWD temporarily allowed the golf course wells to stop pumping for about 2 ½ years, but those wells are now back in operation

Mr. Riedl noted there he saw a lot of conflicts in the language in the proposed agreement, for example such things as the schedule for delivery of the water and the water being an interruptible supply.

Ms. Voss noted that the MCWD proposal is one potential way of getting water to help avert a pumping ramp-down. She asked whether there would be any excess desalinated water that could also be used for this purpose. She also asked whether the updating of the HydroMetrics groundwater model would provide any information that should be taken into consideration with regard to the MCWD proposal.

Mr. Holden commented that the agreement between MCWD and M1W for the Pure Water Monterey project has some month-by-month caps on the quantities of reclaimed water that MCWD can obtain.

Mr. Riedl asked why the Watermaster should even be involved in the purchase of the water. He said he felt that the City of Seaside would be a more logical buyer of water to be used on its golf courses.

Mr. Riedl also noted that paragraph 8 of the MCWD proposed agreement puts the responsibility for water quality issues on M1W, even though M1W is not a party to the proposed agreement.

Mr. Jaques asked TAC members to send to him via email any additional comments they had within a week, so he could include them in his agenda transmittal on this topic for the Board's next meeting.

5. Schedule

Mr. Jaques reported that the Technical Memorandum from HydroMetrics on updating the groundwater model will be delayed until May, rather than April, due to some staff vacations there.

Mr. Jaques also reported that there may be no need to have an April TAC meeting, unless something comes up at the Board's April meeting that would require the TAC to meet. If no issues arise at that meeting, Mr. Jaques will propose that the April TAC meeting be canceled, and the next TAC meeting be held in May. A notification regarding this will be sent by email to all TAC members

Mr. Lear reported that MPWMD was still waiting for M1W to sign the cost-sharing agreement for the geochemical modeling work. He went on to say that as soon as M1W signs the agreement, MPWMD will give notice-to-proceed to their consultant, Pueblo Water Resources, to begin work on the geochemical modeling.

6. Other Business

Mr. Riedl pointed out that a correction needs to be made on the location of the backwash pond in the map on page 23 of the agenda packet. Mr. Jaques will pursue this with Mr. Holden.

Mr. Lear reported that the new eco-resort project in Sand City has started pumping from their well, so they will need to start reporting pumping quantities to the Watermaster. He also noted that they are grading the site and are lowering the ground levels by as much as 30 feet in some locations. Therefore, the existing monitoring well there may need to be replaced, because it only has about 50 feet of sanitary seal and lowering the grade by 30 feet would reduce this to the point that it would no longer be acceptable to the Monterey County Department of Environmental Health.

Mr. Riedl expressed concerns about chlorine disinfection byproducts in the Pure Water Monterey reclaimed water and would like to have that issue addressed in the geochemical modeling. Mr. Jaques responded that he believed this was an issue that the geochemical modeling would investigate.

The next regular meeting will be held either on Wednesday April 11, 2018 or Wednesday May 9, 2018 at 1:30 p.m. in the MRWPCA Conference Room. An email notification on the date and room location will be sent to all TAC members.

The meeting adjourned at 2:55 p.m.

D-R-A-F-T
MINUTES

**Seaside Groundwater Basin Watermaster
Technical Advisory Committee Meeting
June 13, 2018**

Attendees: TAC Members

City of Seaside –Rick Riedl
California American Water – Nina Miller
City of Monterey – Laurie Williamson (via telephone)
Laguna Seca Property Owners – Bob Costa
MPWMD – Tom Lindberg
MCWRA – Howard Franklin
City of Del Rey Oaks – No Representative
City of Sand City – Leon Gomez (via telephone)
Coastal Subarea Landowners – No Representative

Watermaster

Technical Program Manager - Robert Jaques

Consultants

HydroMetrics – Georgina King (via telephone)
Martin Feeney – Martin Feeney (via telephone)

Others

MCWD – Patrick Breen

The meeting was convened at 1:35 p.m. after a quorum had been established. The meeting was moved from the Board Room to the Conference Room in an effort to improve the performance of the telephone conference call-in line.

1. Public Comments

There were no public comments.

2. Administrative Matters:

A. Approve Minutes from the March 14, 2018 Meeting

On a motion by Mr. Riedl, seconded by Mr. Franklin, the minutes from this meeting were unanimously approved as presented, with Ms. Williamson abstaining.

B. Sustainable Groundwater Management Act (SGMA) Items

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

Ms. Miller asked for an explanation of the “Area of Impact” to which the moratorium on new wells discussed on page 8 of the agenda packet applied. Mr. Franklin clarified that the Area of Impact means the area within which seawater intrusion is being detected. He went on to explain that the Area of Impact needs to be better defined for the deep aquifer by performing additional analyses, but that the Areas of Impact for the 180’ and 400’ aquifers have already been defined.

Mr. Riedl asked how often the TAC to work with HydroMetrics on development of the SVBGSA's GSP will meet. Mr. Jaques replied that this TAC has not yet been formed and no meeting schedule for it has been promulgated.

C. Progress Report on Geotechnical Modeling Work

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

Mr. Riedl asked if the core samples referred to on page 20 of the agenda packet, which MPWMD will be collecting, will come from a bore that will subsequently be used as a monitoring well. Mr. Lindberg responded that he believed the core sample would probably be from an injection well. He said several wells will be drilled and some will be for injection and some will be for monitoring.

3. Results from Martin Feeney's March Induction Logging of the Sentinel Wells

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

Mr. Feeney noted that he had modified how the plots display the data to make the plots more readable. He briefly explained that there is some separation of data from year-to-year caused by different tools being used in the induction logging process and the amounts of natural recharge that occurred, but there are no trends to indicate seawater intrusion is occurring.

He went on to point out that the conductivities over much of the depth of the Sentinel Wells is in the 300 to 400 microsiemens range, whereas seawater is typically about 50,000 microsiemens. The shallow Aromas Sands are seawater intruded, and that is why their conductivity is so high

He also commented that a 5 to 8% change in chloride levels is necessary to see an appreciable change in conductivity.

4. Discuss Technical Memorandum from HydroMetrics on Updating and Recalibrating the Seaside Basin Groundwater Model

Mr. Jaques introduced this topic, and Ms. King made a presentation on the Technical Memorandum. Copies of her presentation slides are attached.

She noted in her presentation that the 1997 groundwater level data from the Salinas Valley Basin model were used in 2009 when the Seaside Basin model was developed, but in the 2018 update 2010 data from the Salinas Valley Basin model was initially used. The 2010 data showed greater differences between observed and simulated values at the boundary between the Seaside Groundwater Basin and the Salinas Valley Basin, along the northeasterly boundary of the Seaside Basin. Consequently HydroMetrics reverted back to using the 1997 Salinas Valley Basin model results, in which the observed and simulated groundwater levels matched much more closely than the results from the 2010 modeling.

Mr. Jaques asked if she knew why there would be these differences between the 1997 data and the 2010 data. Mr. Franklin responded that the boundary area in question was not an area of high interest to the County when the 2010 Salinas Valley Basin model runs were performed. He reported that the more recent USGS model is based on 1967 through 2014 data and should be ready to review soon. He felt that it would be more accurate in that location.

Mr. Feeney said that since 1997 more work has been done, and it is now clear that the water levels predicted by the Salinas Valley Basin model at the location of the blue arrow on the “Model Boundary with Salinas Valley” slide in Ms. King’s presentation are much too high.

Mr. Franklin noted that the USGS model will be available in 2019 and could then be used by Hydro Metrics if desired.

Ms. King said HydroMetrics recommends that this issue be looked at again at the boundary between the Seaside Basin model and the Salinas Valley Basin model when the Salinas Basin model data becomes available in 2019. The purpose of that would be to see how well the predicted groundwater levels between the two models match at this boundary.

The wells that are perforated in multiple aquifers do not correlate well between observed versus simulated levels, because HydroMetrics had to make assumptions on how much water was being pumped from each aquifer. Since other nearby wells that were screened in only one aquifer correlated very well, it indicates that the model is accurate in these locations.

Statistical analysis indicates that the model does not show any significant bias as indicated in the first “Calibration Results” slide, and also that calibration is good as shown in the second “calibration results” slide.

The conclusions from the Technical Memo were:

- ◇ Changing the northern boundary heads had the greatest impact on calibration of the model
 - ◇ When the new Salinas Valley model has been completed by the USGS, assess if that new model does a good job on northern boundary and if so add those heads when the Seaside Basin model is next updated
- ◇ Recalibration, primarily by changing the northern boundary heads, resulted in a better calibration than the original 2009 model
- ◇ The model should be updated at least every five years and its calibration reevaluated

In response to a question by Mr. Riedl, Mr. Franklin and Mr. Feeney explained that there have been Salinas Valley Basin model updates, and currently the USGS is developing the new model. Mr. Franklin went on to say that the USGS was provided the Seaside Basin model as information available to them in conjunction with developing the new Salinas Basin model, but that no data for the Seaside Basin will be provided in the USGS model.

Mr. Franklin, Mr. Feeney, and Ms. King all expressed the opinion that the updated and recalibrated Seaside Basin model is fine for use in managing the Seaside Basin.

Mr. Jaques, Mr. Franklin, and Mr. Breen all agreed that it will be important for the various entities involved in developing groundwater sustainability plans and selecting groundwater management actions at interfaces between basins to be in agreement with the modeling results.

Mr. Jaques asked TAC members if they felt there would be value in having Gus Yates of Todd Groundwater review the Technical Memorandum and provide any comments or concerns that he feels should be addressed. Mr. Costa said he felt this would be a good idea. Following further discussion there was consensus by TAC members that such a review would be beneficial. The review would not be done at a “high-level”, i.e. not too detailed and therefore not too costly. Mr. Jaques said there was

already an open on-call services agreement with Todd Groundwater that could cover these costs, and that he would contact Mr. Yates and ask him to perform this review.

Mr. Franklin said there were a few “editorial” comments on page 18 in the second paragraph of the Technical Memorandum that he felt should be deleted. Ms. King said she would gladly make those revisions.

There was consensus that this agenda item be carried over to the next TAC meeting, in order to receive the comments from Mr. Yates before taking any further action on the Technical Memorandum.

5. RFS to HydroMetrics WRI to Update the Basin Management Action Plan

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

The TAC determined to defer taking action on this agenda item until the next TAC meeting after it has received Mr. Yates comments on the Technical Memorandum discussed in the preceding agenda item.

6. Schedule

Mr. Jaques highlighted a few changes to dates in the schedule for the Basin Management Action Plan update.

Mr. Riedl requested that Mr. Jaques ask the Budget and Finance Committee if it will be wanting the TAC to provide any assistance as it develops the Replenishment Assessment Unit Cost for 2019. Mr. Jaques said he would make that contact and report back.

7. Other Business

Ms. Miller reported that Eric Sabolsice is leaving California American Water to go to work with a consulting firm. Ms. Miller will take over as the California American Water Board representative and will have Mr. Sabolsice notify Ms. Dadiw of this change.

The meeting adjourned at 2:55 p.m.

Seaside Groundwater Basin Model Update and Recalibration

Presented to the Seaside Basin Technical Advisory Committee
June 13, 2018

Background


- ❖ Over nine years since the Basin Management Plan (BMAP) was last updated, includes estimates of:
 - ❖ Groundwater Storage
 - ❖ Safe Yield
- ❖ BMAP update this year will benefit from use of updated model to assist in determining storage and safe yield, and in developing short and long-term management strategies

Model History

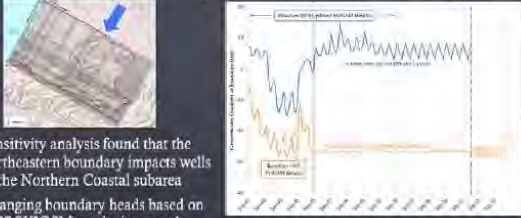
- ❖ 2009: original model developed and calibrated from 1987 through 2008
- ❖ 2010: new Salinas Valley model data used to update northern boundary when modeling Coastal Water Project scenarios
- ❖ 2014: update model input data from 2009 – 2013, worsening calibration
- ❖ 2018: update model input data from 2014 – 2017 and recalibrate

Data Input

- ❖ Groundwater Pumping
 - ❖ MPWMD
 - ❖ Cal Water Service
 - ❖ Marina Coast Water District
- ❖ Deep Groundwater Recharge
 - ❖ Precipitation data
 - ❖ Evapotranspiration data
- ❖ Groundwater Level Data



Model Boundary with Salinas Valley



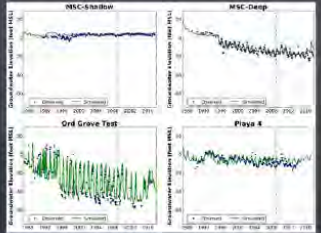
- ❖ Sensitivity analysis found that the northeastern boundary impacts wells in the Northern Coastal subarea
- ❖ Changing boundary heads based on 1997 SVIGSM results improved calibration

Model Calibration Approach

1. Conducted sensitivity analysis to assess if incremental changes in applied recharge had an influence on simulated groundwater levels
 - ▶ northern boundary had a much greater impact on groundwater levels – recalibration focused on this aspect
2. Use model calibration software to vary aquifer parameters, such as hydraulic conductivity to see if this would improve calibration
 - ▶ no significant overall improvements in calibration. Some wells would improve while others would worsen.

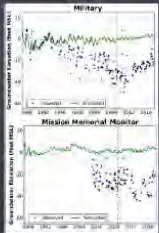
Well Hydrographs

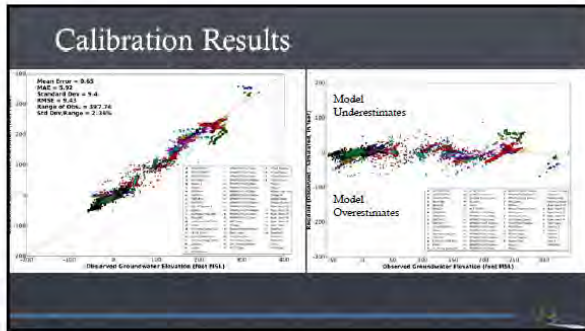
- ❖ Northern Coastal subarea monitoring wells and some production wells are simulated well
- ❖ These wells are generally screened in one aquifer which makes it easier to model



Well Hydrographs

- ❖ Northern Coastal subarea production wells do not match well because they are screened across multiple aquifers/model layers and often have levels influenced by pumping
- ❖ Other observed groundwater levels in the area better match simulated levels
- ❖ No locational bias





Calibration Results

| Statistical Measure | 2009 | | 2018 | |
|--------------------------------|-------------|---------------|-------------|---------------|
| | Calibration | Recalibration | Calibration | Recalibration |
| Mean Error | 2.18 | 0.65 | | |
| Mean Absolute Error (MAE) | 7.4 | 5.9 | | |
| Standard Deviation | 12.9 | 9.4 | | |
| Root Mean Squared Error (RMSE) | 12.9 | 9.4 | | |
| Standard Deviation/Range | 2.9% | 2.4% | | |

← Below 10% is industry standard

- ### Conclusions
- ◆ Changing the northern boundary heads had the greatest impact on calibration of the model
 - ◆ When the new Salinas Valley model has been completed by the USGS, assess if that new model does a good job on northern boundary and if so add those heads when the Seaside Basin model is next updated
 - ◆ Recalibration, primarily by changing the northern boundary heads, resulted in a better calibration than the original 2009 model
 - ◆ The model should be updated at least every five years and its calibration reevaluated

Questions?

D-R-A-F-T
MINUTES

**Seaside Groundwater Basin Watermaster
Technical Advisory Committee Meeting
July 11, 2018**

Attendees: TAC Members

City of Seaside –Rick Riedl (via telephone)
California American Water – Nina Miller (via telephone)
City of Monterey – Laurie Williamson (via telephone)
Laguna Seca Property Owners – Bob Costa
MPWMD – Jon Lear
MCWRA – Tamara Voss
City of Del Rey Oaks – No Representative
City of Sand City – Leon Gomez (via telephone)
Coastal Subarea Landowners – No Representative

Watermaster

Technical Program Manager - Robert Jaques

Consultants

HydroMetrics – Georgina King (via telephone)

Others

MCWD – Patrick Breen

The meeting was convened at 1:31 p.m. after a quorum had been established.

1. Public Comments

There were no public comments.

2. Administrative Matters:

A. Approve Minutes from the June 13, 2018 Meeting

On a motion by Ms. Williamson, seconded by Mr. Gomez, the minutes from this meeting were unanimously approved as presented.

B. Sustainable Groundwater Management Act (SGMA) Items

Mr. Jaques summarized the agenda packet materials for this item. There was no other discussion.

C. Progress Report on Geochemical Modeling Work

Mr. Lear gave an oral update report, including this information:

- Collected data is being reviewed
- MPWMD staff is interacting with Trussell Technology (who has also been hired by CAW to look into desalination water affects on their distribution system piping).
- Carmel Valley water and Santa Margarita aquifer water have adequate water quality data for modeling purposes.

- He is awaiting data from the Pure Water Monterey and CAW desalination projects.
- Analyses are being performed on soil matrix samples.
- On July 23 they will begin coring to a depth of 700-feet to obtain samples for Santa Margarita chemical analyses.
- They are considering alternative means of performing the modeling if data gaps are found to exist.

Mr. Jaques asked Mr. Lear how long he expected it would be before Pueblo Water Resources would be able to provide their report on the geochemical modeling work. He said he expected it would be 6 to 8 weeks after all data has been provided to them to perform network.

D. Discuss Making Changes in the Use of the Teleconference Line for Participation in Future TAC Meetings

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

Ms. Miller said she supported use of the conference line as an exception, when it is not possible for someone to attend a meeting in person, but otherwise it would be preferable for persons to attend TAC meetings in person.

Mr. Gomez, Ms. Williamson, Mr. Riedl, Mr. Lear, and Ms. Voss concurred with Ms. Miller's comments.

Thus, there was consensus that TAC members would attend meetings in person, rather than routinely using the conference line, and that use of the conference line would be reserved for situations where was impossible for a TAC member to attend in person. The conference line could also be used by consultants and other persons who are geographically located out of the area.

E. Change in Ownership of HydroMetrics

Mr. Jaques summarized the agenda packet materials for this item

Ms. King reported that Montgomery and Associates is relying on Derek Williams for his California contacts and ongoing clients. She said that job titles and other such matters were still in the process of being arranged. She said her title would likely be Senior Hydrogeologist, but she did not know what Mr. Williams new job title would be. She also mentioned that Mr. Williams has moved to the Paso Robles area and that while he will continue to be actively involved in Watermaster work, she would most often be the direct contact with the Watermaster, as she has been on much of the work in recent years.

There was discussion regarding the language suggested by Mr. Riedl to be added to the new Professional Services Agreement with Montgomery and Associates (shown in italics on page 14 of the agenda packet). Following that discussion there was consensus to include Ms. King's name along with Mr. Williams name, in that language, to ensure that they would both continue to be directly and actively involved in all work performed for the Watermaster.

There was unanimous TAC agreement to have the Technical Program Manager carry out the three numbered actions on page 14 of the agenda packet.

F. Update on Monterey Regional Stormwater Resources Plan

Mr. Jaques summarized the agenda packet materials for this item. There was no other discussion.

3. Continued Discussion of Technical Memorandum from HydroMetrics on Updating and Recalibrating the Seaside Basin Groundwater Model

Mr. Jaques summarized the agenda packet materials for this item, and recommended that the TAC approve the Updated Draft Technical Memorandum and to forward the TAC's findings to the Board.

Mr. Lear said he concurred with this recommendation.

On a motion by Mr. Costa, seconded by Ms. Voss, there was unanimous approval of this recommendation.

4. RFS to Update the Basin Management Action Plan

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

Mr. Lear noted that updating the Basin Management Action Plan had been approved by the TAC last year.

Mr. Costa asked Mr. Jaques how often the BMAP was updated. Mr. Jaques responded that this would be the first update since its original preparation in 2009.

On a motion by Ms. Voss, seconded by Mr. Costa, there was unanimous this approval to proceed with issuing the RFS to update the Basin Management Action Plan.

5. Initial Discussion Regarding Scope of Work for Monitoring and Management Program (M&MP) for FY 2019

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

Mr. Lear asked TAC members if they had any comments or additions to the proposed scope of work for the monitoring and management program, and none were offered.

Ms. Voss said she was okay with the version contained in the agenda packet, including the indicated revisions from prior years monitoring management program.

Mr. Lear asked TAC members to submit any comments or additions to Mr. Jaques by the close of business today, so he could proceed with preparing the document for final approval by the TAC at its August meeting.

6. Schedule

Mr. Jaques summarized the agenda packet materials for this item, and highlighted that the August TAC meeting would be on the third Wednesday rather than the second Wednesday in order to allow extra time to prepare the 2019 Monitoring and Management Program and its budgets. There was no other discussion.

7. Other Business

Mr. Costa asked if there had been any news on who would be replacing Mr. Sabolsice at California American Water. Mr. Jaques said he had not heard anything. Ms. Miller had to leave the meeting slightly earlier than this agenda item, so she was not available to provide any update herself.

The meeting adjourned at 2:15 PM

SEASIDE GROUNDWATER BASIN WATERMASTER
Reported Quarterly and Annual Water Production From the Seaside Groundwater Basin
For All Producers Included in the Seaside Basin Adjudication -- Water Year 2018

(All Values in Acre-Feet [AF])

| | Type | Oct | Nov | Dec | Oct-Dec 17 | Jan | Feb | Mar | Jan-Mar 18 | Apr | May | Jun | Apr-Jun 18 | Jul | Aug | Sep | Jul-Sep 18 | Reported Total | Yield Allocation | Total WY 2017 | For WY 2018 | | |
|-----------------------------------------|------|--------|--------|--------|-----------------|--------|--------|--------|---------------|-------|-------|-------|---------------|------|------|------|-------------|-----------------|--------------------------------------|-----------------|-----------------|----------|----------|
| Coastal Subareas | | | | | | | | | | | | | | | | | | | | | | | |
| CAW - Coastal Subareas | SPA | 367.69 | 307.12 | 315.00 | 989.81 | 245.45 | 241.90 | 170.36 | 657.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,647.52 | 1,837.38 | 708.80 | 2,546.17 | | |
| City of Seaside (Municipal) | SPA | 16.46 | 13.37 | 14.39 | 44.22 | 13.05 | 13.64 | 13.31 | 39.99 | 16.11 | 16.97 | 16.83 | 49.91 | 0.00 | 0.00 | 0.00 | 0.00 | 134.13 | 150.74 | 0.00 | 150.74 | | |
| Granite Rock Company | SPA | -- | -- | -- | 0.00 | -- | -- | -- | 0.00 | -- | -- | -- | 0.00 | -- | -- | -- | 0.00 | 0.00 | 14.22 | 252.77 | 266.99 | | |
| DBO Development No. 30 | SPA | -- | -- | -- | 0.00 | -- | -- | -- | 0.00 | -- | -- | -- | 0.00 | -- | -- | -- | 0.00 | 0.00 | 25.80 | 481.76 | 507.56 | | |
| Calabrese (Cypress Pacific Inv.) | SPA | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.45 | 12.72 | 16.17 | | |
| City of Seaside (Golf Courses) | APA | 45.04 | 6.11 | 15.49 | 66.64 | 1.94 | 26.13 | 8.92 | 36.99 | 34.42 | 83.58 | 67.24 | 185.24 | 0.00 | 0.00 | 0.00 | 0.00 | 288.87 | 540.00 | | 540.00 | | |
| Sand City | APA | 0.02 | 0.10 | 0.02 | 0.14 | 0.08 | 0.19 | 0.15 | 0.41 | 0.10 | 0.13 | 0.09 | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.87 | 9.00 | | 9.00 | | |
| SNG (Security National Guaranty) | APA | -- | -- | -- | 0.00 | 0.00 | 0.00 | 0.58 | 0.04 | -- | -- | -- | 0.00 | -- | -- | -- | 0.00 | 0.00 | 149.00 | | 149.00 | | |
| Calabrese (Cypress Pacific Inv.) | APA | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 6.00 | | 6.00 | | |
| Mission Memorial (Alderwoods) | APA | 2.31 | 0.46 | 1.02 | 3.79 | 0.64 | 0.44 | 0.12 | 1.20 | 0.22 | 1.86 | 1.25 | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 8.31 | 31.00 | | 31.00 | | |
| Coastal Subareas Totals | | | | | 1,104.60 | | | | 736.33 | | | | 238.82 | | | | 0.00 | 2,079.76 | 2,766.59 | 1,456.04 | 4,222.64 | | |
| Laguna Seca Subarea | | | | | | | | | | | | | | | | | | | | | | | |
| CAW - Laguna Seca Subarea | SPA | 24.00 | 18.60 | 23.59 | 66.19 | 19.19 | 21.63 | 18.47 | 59.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 125.48 | 0.00 | | 0.00 | | |
| Ryan Ranch Unit | | 2.29 | 3.97 | 4.20 | 10.46 | 3.66 | 0.93 | 0.00 | 4.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.05 | | | | | |
| Hidden Hills Unit | | 10.24 | 5.63 | 9.87 | 25.74 | 7.75 | 8.80 | 7.82 | 24.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 50.11 | | | | | |
| Bishop Unit | | 11.47 | 9.00 | 9.52 | 29.99 | 7.78 | 11.90 | 10.65 | 30.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 60.32 | | | | | |
| Nicklaus Club Monterey | APA | 23.00 | 0.00 | 0.00 | 23.00 | 0.00 | 2.00 | 0.00 | 2.00 | 7.00 | 18.00 | 27.00 | 52.00 | 0.00 | 0.00 | 0.00 | 0.00 | 77.00 | 251.00 | | 251.00 | | |
| Laguna Seca Golf Resort (Bishop) | APA | 30.81 | 0.00 | 0.00 | 30.81 | 5.68 | 2.24 | 0.17 | 8.10 | 6.21 | 29.52 | 42.09 | 77.82 | 0.00 | 0.00 | 0.00 | 0.00 | 116.73 | 320.00 | | 320.00 | | |
| York School | APA | 2.24 | 0.08 | 0.71 | 3.02 | 0.01 | 0.54 | 0.01 | 0.56 | 0.85 | 2.05 | 1.58 | 4.48 | 0.00 | 0.00 | 0.00 | 0.00 | 8.06 | 32.00 | | 32.00 | | |
| Laguna Seca County Park | APA | 1.01 | 0.65 | 0.97 | 2.63 | 1.15 | 1.18 | 0.60 | 2.93 | 1.36 | 1.56 | 2.06 | 4.99 | 0.00 | 0.00 | 0.00 | 0.00 | 10.54 | 41.00 | | 41.00 | | |
| Laguna Seca Subarea Totals | | | | | 125.65 | | | | 72.87 | | | | 139.29 | | | | 0.00 | 337.81 | 644.00 | 0.00 | 644.00 | | |
| Total Production by WM Producers | | | | | 1,230.26 | | | | 809.20 | | | | 378.11 | | | | 0.00 | 2,417.57 | 3,410.59 | 1,456.04 | 4,866.64 | | |
| | | | | | | | | | | | | | | | | | | | Annual Production from APA Producers | | 510.44 | | |
| | | | | | | | | | | | | | | | | | | | Annual Production from SPA Producers | | 1,907.13 | 1,379.00 | 3,487.64 |

| | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------|--|------|------|------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|-------------|-------------|--|--|-------------|
| City of Seaside Golf Courses In-Lieu (MCWD source water) | | | | | | | | | | | | | | | | | | | | | |
| MCWD delivery | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| CAW / MPWMD ASR (Carmel River Basin source water) | | | | | | | | | | | | | | | | | | | | | |
| Injection | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 |
| (Recovery) | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 |
| Net ASR | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | 0.00 |

Notes:

- The Water Year (WY) begins October 1 and ends September 30 of the following calendar year. For example, WY 2018 begins on October 1, 2017, and ends on September 30, 2018.
- "Type" refers to water right as described in Seaside Basin Adjudication decision as amended, signed February 9, 2007 (Monterey County Superior Court Case No. M66343).
- Values shown in the table are based on reports to the Watermaster received by July 15, 2018.
- All values are rounded to the nearest hundredth of an acre-foot. Where required, reported data were converted to acre-feet utilizing the relationships: 325,851 gallons = 43,560 cubic feet = 1 acre-foot.
- "Base Operating Yield Allocation" values are based on Seaside Basin Adjudication decision. These values are consistent with the [Watermaster Producer Allocations Water Year 2018](#) (see Item IX B. in 12/6/2017 Board packet).
- Any minor discrepancies in totals are attributable to rounding.
- APA = Alternative Producer Allocation; SPA = Standard Producer Allocation; CAW = California American Water.
- It should be noted that CAW/MPWMD ASR "Injection" and "Recovery" amounts are not expected to "balance" within each Water Year. This is due to the injection recovery "rules" that are part of SWRCB water rights permits and/or separate agreements with state and federal resources agencies that are associated with the water rights permits.

1 ERIC N. ROBINSON, State Bar No. 191781
erobinson@kmtg.com
2 STANLEY C. POWELL, State Bar No. 254057
spowell@kmtg.com
3 KRONICK, MOSKOVITZ, TIEDEMANN & GIRARD
A Professional Corporation
4 400 Capitol Mall, 27th Floor
Sacramento, California 95814
5 Telephone: (916) 321-4500
Facsimile: (916) 321-4555

6 Attorneys for Defendants and Cross-
7 Complainants, BISHOP, MCINTOSH &
MCINTOSH
8

9 **SUPERIOR COURT OF THE STATE OF CALIFORNIA**
10 **COUNTY OF MONTEREY**

12 CALIFORNIA AMERICAN WATER ,

13 Plaintiff,

14 v.

15 CITY OF SEASIDE, et al.,

16 Defendants.

17 MONTEREY PENINSULA WATER
18 MANAGEMENT DISTRICT,

19 Intervenor.

20 MONTEREY COUNTY WATER
21 RESOURCES AGENCY,

22 Intervenor.

23 AND RELATED CROSS-ACTIONS.
24

Case No. M66343

**STIPULATION AND [PROPOSED]
ORDER MODIFYING EXHIBIT C TO
AMENDED DECISION**

Assigned for All Purposes to the Honorable
Leslie C. Nichols

Action Filed: August 14, 2003

25
26 **RECITALS**

27 A. On May 15, 2018, Defendant and Cross-Complaint Bishop, McIntosh and McIntosh
28 (“Bishop”) filed a Notice of Motion and Motion to Modify Exhibit C to Amended Judgment

1 (“Motion”).

2 B. The Motion was made upon the grounds that Bishop mistakenly omitted four parcels
3 of land from Exhibit C to the Court’s March 27, 2006, Decision (which Exhibit C remained
4 unchanged in the Court’s February 9, 2007, Amended Decision), and that this Court has continuing
5 jurisdiction to correct that oversight under section III(O)(1)(a) of the Amended Decision.

6 C. The four mistakenly omitted parcels are described in the deeds attached hereto as
7 Exhibit 1.

8 D. Correcting Exhibit C to include the four mistakenly omitted parcels will not change
9 the amount, or quantity, of the Alternative Production Allocation specified for Bishop in Table 2 of
10 the Amended Decision’s section III(B)(3)(e).


11 **STIPULATION**

12 1. Exhibit C to the Court’s February 9, 2007, Amended Decision should be modified to
13 include the four mistakenly omitted parcels described in the deeds attached hereto as Exhibit 1

14 2. This stipulation may be entered in counterparts.

15
16 DATED: May 23, 2018

KRONICK, MOSKOVITZ, TIEDEMANN & GIRARD
A Professional Corporation

17
18
19 By: 
20 Eric N. Robinson
21 Attorneys for Defendants and Cross-
22 Complainants, BISHOP, MCINTOSH &
23 MCINTOSH
24
25
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