



California American Water – Monterey
511 Forest Lodge Rd, Suite 100
Pacific Grove, CA 93950
amwater.com

July 22, 2014

Barbara Evoy, Division Chief
Division of Water Rights
State Water Resources Control Board
1001 I Street
Sacramento, CA 95812

Re: SWRCB Order WR 2009-0060, 3rd Quarterly Report for the 2013-2014 Water Year
Addressing Operations for the Period of April 1, 2014 to June 30, 2014.

Dear Ms. Evoy:

Pursuant to Condition Six of Order WR 2009-0060, this letter is California American Water's report for the 3rd quarter of Water Year 2014 covering the period of April 1, 2014 to June 30, 2014. Each subsection of Condition Six is represented by a separate heading below. For ease of reference, the requirement of each subsection is summarized, followed by the requested information.

Condition 6(a)

Condition 6(a) requires California American to provide monthly summaries of the quantity of water it diverts from the river.

Compliance with Condition 6(a):

Table One summarizes the water diverted from the Carmel River by month, including all water diverted to storage under Permit 20808A. This data is compiled from meter readings that are collected daily from California American Water's pumps, either through an employee manually reading each meter, or through an employee reading the data from the Supervisory Control and Data Acquisition ("SCADA") system. A California American Water employee manually enters those daily readings into a spreadsheet that is provided to the Monterey system General Manager. The spreadsheet is designed to automatically calculate the monthly total from the daily readings. At the end of each month, this daily summary is cross-checked against SCADA information that is separately maintained for each well.

Month	Quantity Diverted
April 2014	637.47 AF
May 2014	660.30 AF
June 2014	793.56 AF
Total	2091.32 AF

Condition 6(b)

Condition 6(b) requires California American Water to provide monthly summaries of the quantity of ASR project water diverted from the river under Permit 20808A and stored in the Seaside groundwater basin. The monthly report is to state the quantity of water beneficially used under Permit 20808A and the current balance of water in storage.

Compliance with Condition 6(b):

Table Two summarizes by month the quantity of ASR project water diverted from the Carmel River under Permit 20808A. This summary is from a spreadsheet e-mailed to the General Manager for California American Water's Monterey system by a Monterey Peninsula Water Management District employee each business day during the diversion season. This spreadsheet shows the gallons of water injected into each of the three injection wells. California American Water understands that the daily injection data is a manual reading of the meters on the injection pumps by a Monterey Peninsula Water Management District employee. This spreadsheet also contains a formula that converts the number of acre-feet based on the gallons injected and also totals the daily readings for the month. The information in Table Two is taken directly from this spreadsheet.

The data regarding ASR water recovered is taken from the Quarterly Water Budget developed cooperatively between California American Water, the Monterey Peninsula Water Management District, NOAA Fisheries, and the California Department of Fish and Game, and represents an accounting of water withdrawn from the Seaside Groundwater Basin.

Table Two						
Monthly Water Diverted to Storage Under Permit 20808A and Storage Balance						
Santa Margarita & Seaside Middle School						
Month	Well 1 Diverted to Storage (AF)	Well 2 Diverted to Storage (AF)	Well 3 Diverted to Storage (AF)	Well 4 Diverted to Storage (AF)	ASR Recovery (AF)	Month End Storage Balance (AF)
April 2014	0	0	0	N/A	0	0
May 2014	0	0	0	N/A	0	0
June 2014	0	0	0	N/A	0	0
Total AF	0	0	0	N/A	0	0
WYTD AF	0	0	0	N/A	0	0

Condition 6(c)

Condition 6(c) requires California American Water to provide monthly summaries of the quantity of water being produced by the Sand City desalination plant. The report is also to identify new service connections within Sand City and report the quantity of water being delivered to the new connections. The monthly report is also to specify the quantity of water used to reduce diversions from the river during the reporting period.

Compliance with Condition 6(c):

Table Three lists the number of new connections in the City of Sand City by month for the reporting period. This information is taken from Attachment One. Attachment One is manually compiled by a California American Water employee from the water connection permits issued by the Monterey Peninsula Water Management District and subsequently provided to California American Water by prospective customers. If a listing on Attachment One has no "Installed Date," the customer has provided California American Water with the water connection permit, but has not requested a meter to be installed.

Table Three New Connections Within the Sand City		
Month	New Connections	Installed Date
April 2014	0	N/A
May 2014	0	N/A
June 2014	0	N/A

Table Four summarizes by month the quantity of water produced by the Sand City desalination plant, the quantity of water used by new connections, and quantity of water used to reduce river diversions.

Table Four Sand City Desalination Facility Monthly Production and Product Allocation			
Month	Sand City Production	Water Used by New Connections	Water Used to Reduce River Diversions
April 2014	25.87 AF	0.004 AF	25.87 AF
May 2014	24.62 AF	0.006 AF	24.62 AF
June 2014	8.26 AF	0.006 AF	8.26 AF

Condition 6(d)

Condition 6(d) requires California American Water to provide monthly summaries of the quantity of water saved by reducing system losses.

Compliance with Condition 6(d):

Water systems typically calculate losses using a 12-month running average to smooth seasonal variations in the data. Table Five lists the 12-month running average for Monterey Main System losses and compares the losses to an October 2008 through September 2009 base period. The 12-month running average is calculated by subtracting the cumulative metered consumption from the Monterey Main System production volumes which consist of Carmel Valley, Seaside, and Sand City production. The cumulative metered consumption is based on the individual monthly meter readings and is obtained from a report generated by our accounting system. The Monterey system General Manager calculates the difference from these two numbers to arrive at the monthly system loss, and then calculates the 12-month running average from the monthly data.

12 Month Period	System Losses	Savings Compared to Base Year
Oct 08 – Sept 09	1276 AF (base year)	(base year)
May 13 – Apr 14	439.59 AF	836.41 AF
Jun 13 – May 14	430.77 AF	845.23 AF
Jul 13 – Jun 14	393.15 AF	882.85 AF

It is difficult to identify the actual components of unaccounted-for-water as it is a combination of system leaks and actual water use not captured by meters. A high priority is being given to identifying and repairing leaks, meter replacement, and infrastructure replacement. Table Six presents information on leaks detected and repaired during the reporting period. Each time a leak is detected, a California American Water repair crew responds to repair the leak. The assigned crew leader prepares a "leak report." The information in Table Six is based on a manual count of the leak reports received by the Monterey system General Manager during the reporting period.

Month	Main Leaks	Service Leaks
April 2014	22	60
May 2014	19	41
June 2014	23	51

Table Seven summarizes service, main, meter, and hydrant replacements during the reporting period. Please note that service, main, meter and hydrant replacements are performed by both California American Water's forces and contractors. Service replacements are tracked via work orders for various purposes, including accounting and system management. The service replacements are calculated by a California American Water Operations supervisor from these work orders. The quantity of water mains and fire hydrants replaced is compiled by a California American Water Operations supervisor from Engineering Department records, which in turn are based on information from contractors. California American Water maintains records regarding meter replacements for various purposes, including reporting to the California Public Utilities Commission and inventory control. The number of meters replaced was compiled by a California American Water Operations supervisor from these records. To the extent that the data in Table Seven includes contractor reports or data from invoices for contract services, this information: (a) is based on the representations made by our contractors; (b) may include field estimates for the lengths of pipe replaced.

Month	Service Replacements Number	Main Replacements Feet	Meter Replacements Number	Fire Hydrant Replacements Number
April 2014	5	0 FT	144	5
May 2014	10	0 FT	60	8
June 2014	6	0 FT	42	6

Condition 6(e)

Condition 6(e) requires California American Water to provide monthly summaries of reductions in demand for potable water due to conservation actions such as increased rates, the Monterey Peninsula Water Management District's retrofit program, programs to reduce potable water use for outdoor irrigation, and other demand reduction initiatives.

Compliance with Condition 6(e):

California American Water implemented a new conservation rate structure effective February 1, 2010. The change in the rate structure is shown in Table Eight. The residential tiered conservation rate structure increases were directed at the top tier users and were designed to promote conservation practices and reduce overall water usage.

Table Eight			
Main System Residential Rate Structure Effective			
Tier	Old Rates Per Unit February 2009	Current Rates Per Unit June 2014	Percent Change
1	\$0.1719	\$0.4228	145.96%
2	\$0.3438	\$0.8850	157.42%
3	\$0.5157	\$2.1930	325.25%
4	\$0.6876	\$4.8775	609.35%
5	\$1.3752	\$6.4758	370.90%

A unit of water is equal to 10 cubic feet or 75 gallons.

Table Nine compares the five year historical tier 4 and 5 usage with actual use for the reporting period. Tier 4 and 5 usage is almost exclusive outdoor watering. There are several factors that can affect water consumption; including price, weather, and conservation efforts. California American Water assumes that the changes in consumption shown in Table Nine are, in part, a result of the conservation rates and the other conservation activities. Except for savings estimated by the Monterey Peninsula Water Management District for water appliance retrofitting, California American Water cannot attribute specific portions of reduced consumption to rates, weather, or other conservation efforts.

Table Nine		
Tier 4 and 5 Average Historical Usage (WY 2005 - WY 2009) compared to WY 2014		
Month	Historical Usage	2014
April 2012	44.7 AF	10.18 AF
May 2012	46.2 AF	17.97 AF
June 2012	83.4 AF	25.10 AF

Table Ten reports the estimated annual water savings from the Monterey district retrofit program. The monthly rebate costs are dependent on the number and type of water conserving appliances. Examples of rebates include High Efficiency Toilet (\$200), High Efficiency Dishwasher (\$125), High Efficiency Washer (\$500), High Efficiency Urinal (\$200), Cistern Water Tank (\$25 per 100 gallon storage capacity), Cooling Tower Conductivity Controller (\$1,000), and X-ray Film Processor Recirculation System (\$2,000). This information was specifically requested from the

Monterey Peninsula Water Management District by California American Water's Monterey system General Manager for the purposes of this report. The data provided by the Monterey Peninsula Water Management District and reported in Table Ten included the retrofit expenditures and estimated water savings in acre-feet by month.

Table Ten		
Total Retrofit Rebate Payments and Estimated Water Savings by Month		
Month	Cost	Annual Savings
April 2014	\$54,830	3.42 AF
May 2014	\$38,512	3.044 AF
June 2014	\$74,337	3.43 AF
Total	\$167,679	9.894 AF

The Monterey Peninsula Water Management District and California American Water conduct water conservation audits for homes, businesses and landscape accounts. Table Eleven shows the total number of audits conducted in the reporting period. The information in Table Ten was reported to the Monterey system General Manager by California American Water's local Conservation Manager, who manages the conservation contract with the Monterey Peninsula Water Management District.

Table Eleven	
Total Water Conservation Audits By Month	
Month	Number of Audits
April 2014	67
May 2014	61
June 2014	124
Total	252

Both the Monterey Peninsula Water Management District and California American Water use contractors to perform some audits. Accordingly, the data in Table Eleven is based, in part, on: (a) representations by those contractors as to the work performed; and (b) information provided by the Monterey Peninsula Water Management District.

The Monterey Peninsula Water Management District and California American Water conducted the following conservation programs and workshops during the reporting period:

- California American Water (CAW) in conjunction with the Monterey Peninsula Water Management District (MPWMD), continues to offer and provide conservation programs to its customers, including residential water audits, landscape water audits and water budgets, a rebate program, residential plumbing retrofit program, large landscape workshop program, and a public program. In 2014 California American Water completed:
- 219 Residential Water Audits
- 14 Commercial Audits
- 12 Large Residential Landscape Audits
- 3 Large Commercial Dedicated Irrigation Audits

- 2 Soil Moisture Installations
- Conservation Events in partnership with the MPWMD
 - Earth Day Events for April 2014
 - Monterey Peninsula College
 - Naval Post Graduate School
 - Presidio of Monterey
 - Sustainable Pacific Grove
 - ME Earth Day
 - Pebble Beach Community Services District Open House for Public Safety
 - The Good Old Days in Pacific Grove
- California American Water Staff attended the Achieving a New Normal in California Landscapes in Sacramento
- California American Water met with the local school districts and presented the company's landscape grant program where assistance is offered to replace turf and upgrade sprinkler systems. CAW conservation staff and Blue Watch Dog, a water conservation consulting firm conducted audits and offered recommendations on potential water savings.
- The Monterey Peninsula Unified School District and the Carmel Unified School District are in the process of completing proposals to upgrade their irrigation systems to take advantage of CAW's Landscape Grant Program

Condition 6(f)

Condition 6(f) requires California American Water to provide monthly summaries identifying all new service connections. The report is to include the California American Water account number, the service address, the name of each authority granting any approval required for connecting to California American Water's system and the name of each authority granting any approval required before commencing construction; the issuer of each approval and the date of each approval shall be separately listed for each service address.

Compliance with Condition 6(f):

In compliance with Monterey Peninsula Water Management District regulations, California American Water does not connect new customers unless the prospective customer provides California American Water with a water connection permit issued by the Monterey Peninsula Water Management District.

Attachment One is a list of all new connections authorized by the Monterey Peninsula Water Management District. Attachment One is being provided under separate cover as it contains confidential customer account information. California American Water requests the State Water Resources Control Board maintain this information as confidential. As discussed in Section 6(c) above, Attachment One is compiled by California American Water employees from the water connection permits issued by the Monterey Peninsula

Water Management District and provided to California American Water by prospective customers. Prospective customers may elect to have a meter installed shortly after presentation of the water connection permit, or may request the meter at a later date. This report includes prospective customers who have presented California American Water with a water connection permit, even if that customer has not requested a meter to be immediately installed. If the customer has provided California American Water with the water connection permit, but has not requested a meter to be installed, the entry on Attachment One has no "Installed Date."

The new connection count does not include emergency fire service connections or the splitting of master meter connections into individual accounts, as neither of these activities increases water use.

Condition 6(g)

Condition 6(g) requires California American Water to provide monthly summaries identifying existing service addresses that receive an increased supply of water due to a change in zoning or use. The report is to include the California American Water account number, the service address and the name of each authority authorizing the change of use or zoning and the date of such change.

Compliance with Condition 6(g):

Attachment Two is a list of permits issued by the Monterey Peninsula Water Management District authorizing changes to existing service addresses that will result in an increased use of water through a change in zoning or use. Attachment Two is being provided under separate cover as it contains confidential customer account information. California American Water requests the State Water Resources Control Board maintain this information as confidential. Although not clearly a "change in zoning or use," Attachment Two includes permits issued for additions to, or remodeling of, an existing service address where that addition or remodel has been determined by the Monterey Peninsula Water Management District to result in increased water consumption. California American Water requested this information from the Monterey Peninsula Water Management District specifically for this report. The Monterey Peninsula Water Management District provided a spreadsheet that the data from which is included in Attachment Two. This spreadsheet tracks the information by Assessor's Parcel Number. A California American Water employee correlated California American Water's records to the Monterey Peninsula Water Management District's spreadsheet based on Assessor's Parcel Number to obtain the California American Water account number and service address. Other than California American Water account number and service location, all data in Attachment Two was compiled or calculated by the Monterey Peninsula Water Management District. Where there were clear clerical errors in data entry, California American Water corrected those errors in compiling this report.

Conclusion

This concludes our report for the 3rd quarter of Water Year 2014. Should you or your staff have any questions please call me at your earliest convenience at (831) 646-3291.

Compliance with Condition 6(h)

I declare under penalty of perjury, under the laws of the State of California, that all statements contained in this report and any accompanying documents are true and correct, with full knowledge that all statements made in this report are subject to investigation and that any false or dishonest statements may be grounds for prosecution.

Sincerely,



Eric Sabolsice
General Manager
Central Division
California American Water

Attachments (2)