Date: July 28, 2010  
To: Seaside Basin Watermaster  
From: Jonathan Lear, PG, CHg, Senior Hydrogeologist  
Joe Oliver, PG, CHg, Water Resources Division Manager  
Tom Lindberg, Associate Hydrologist  

SUMMARY

This memorandum transmits and summarizes groundwater-quality and groundwater-level data collected for the Seaside Groundwater Basin Watermaster Board (Watermaster) during the first and second quarters of Water Year (WY) 1 2010. This report incorporates the data that were collected and reported during the period from October 1, 2009 through March 31, 2010. This information is being provided to the Watermaster for information purposes, and is in compliance with the monitoring protocols described in the Watermaster’s Seaside Basin Monitoring and Management Program (SBMMP, revision date September 5, 2006), which was prepared in response to the court decision filed March 27, 2006 (as amended by February 9, 2007 filing) in the Seaside Basin adjudication case. This document has been prepared by the Monterey Peninsula Water Management District (MPWMD) on behalf of the Watermaster.

This document is organized into the following three categories of data:

- Precipitation to date,
- Water-quality data collected from MPWMD Quarterly wells, and
- Static water levels collected from MPWMD and other Watermaster basin wells.

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1 The WY begins on October 1, and ends September 30 of the indicated year. The first quarter represents 10/1/09 through 12/31/09 and the second quarter represents 1/1/10 through 3/31/10.
PRECIPITATION

A continuous precipitation gage is located at the south eastern corner of the Southern Coastal Sub-Area of the Seaside Groundwater Basin. Data from the precipitation gage are posted to the www.weatherunderground.com website and are available real time as well as archival data sets. Figure 1 shows the location of the weather station and the average annual rainfall totals for the Seaside Groundwater Basin. Figure 2 shows daily and cumulative rainfall recorded by the weather station for the first and second quarter of the 2010 water year. Average annual rainfall for the location of the weather station is 17 inches. As Figure 2 illustrates, at the close of the second quarter of the WY 2010, the weather station had already logged over 17 inches, which makes this an above average rainfall year for the Seaside Basin.

WATER-QUALITY DATA: MPWMD AND OTHER BASIN WELLS

MPWMD Coastal Monitor-Well Network

Under the current monitoring program conducted for the Watermaster, the MPWMD collects quarterly samples from six monitor wells at three locations that are closest to the coastline, and annually from six additional wells at three locations that are farther from the coastline. The well numbers, names and sampling schedule for the MPWMD coastal monitor wells currently being sampled for the Watermaster are listed below.

<table>
<thead>
<tr>
<th>Well Number</th>
<th>Well Name</th>
<th>Sample Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>15S01E15N3</td>
<td>MSC-Shallow</td>
<td>quarterly</td>
</tr>
<tr>
<td>15S01E15N2</td>
<td>MSC-Deep</td>
<td>quarterly</td>
</tr>
<tr>
<td>15S01E15F1</td>
<td>PCA-W-Shallow</td>
<td>quarterly</td>
</tr>
<tr>
<td>15S01E15F2</td>
<td>PCA-W-Deep</td>
<td>quarterly</td>
</tr>
<tr>
<td>15S01E11Pa</td>
<td>FO-09-Shallow</td>
<td>quarterly</td>
</tr>
<tr>
<td>15S01E11Pb</td>
<td>FO-09-Deep</td>
<td>quarterly</td>
</tr>
<tr>
<td>15S01E15K5</td>
<td>PCA-E-Shallow</td>
<td>annually</td>
</tr>
<tr>
<td>15S01E15K4</td>
<td>PCA-E-Deep</td>
<td>annually</td>
</tr>
<tr>
<td>15S01E23Ca</td>
<td>Ord Terrace-Shallow</td>
<td>annually</td>
</tr>
<tr>
<td>15S01E23Cb</td>
<td>Ord Terrace-Deep</td>
<td>annually</td>
</tr>
<tr>
<td>15S01E12Fa</td>
<td>FO-10-Shallow</td>
<td>annually</td>
</tr>
<tr>
<td>15S01E12Fc</td>
<td>FO-10-Deep</td>
<td>annually</td>
</tr>
</tbody>
</table>

These sites are shown on Figure 3 and completion data for these wells are shown in Table 1. At each site, a “shallow” and “deep” monitor well have been installed (either in separate boreholes or as multiple completions in a single borehole), generally corresponding to well completions within
the two principal aquifer units that have been historically recognized in the Seaside Basin, the Paso Robles Formation (QTp and QTc for undifferentiated Continental Deposits) and Santa Margarita Sandstone (Tsm), respectively. More recently, it has been recognized that the Tsm deposits transition to the Purisima Formation (Tp) in the northern coastal subarea of the Basin. The monitor wells are constructed of 2-inch PVC casing, with screens adjacent to the more permeable (i.e., based on lithologic and geophysical logging analyses) sand “packages” within each aquifer unit. The aquifer units are separated from each other in the wells by cement strata-isolation seals.

**MPWMD Coastal Monitor Wells Water-Sample Collection**

Water-sample collection from the MPWMD coastal monitor wells for quarters 1 and 2 of WY 2010 water year were accomplished by the Low-Flow Method. As a means to investigate alternative water-quality sampling technologies, MPWMD staff completed a test of different “low-flow” sampling methodologies at Watermaster database Well No. 258 (MW-B-23-180) on June, 4, 2009. Results from the methodology comparison along with cost estimates for implementation of each methodology were presented to the Watermaster Technical Advisory Committee (TAC) at the June 10, 2009 meeting. Following the recommendation of the TAC, MPWMD staff purchased a Micro Purge well sampling pump and pump controller from QED Environmental Systems, Inc. Motivation behind changing the sampling method included a desire to: (a) switch to a less invasive sampling method to prolong the life of the monitoring wells and (b) implement a less labor-intensive method that will be more cost effective to the Watermaster in the long run. Details of this sampling methodology are discussed below. This methodology will be used to sample MPWMD monitor wells for all quarters of WY 2010.

- **Low-Flow Sampling Method**

Low-flow/low-volume purging method is sample collection using a pumping mechanism that produces low-flow rates [less than 1 liter per minute (lpm) or less than 0.26 gallon per minute (gpm)] that cause minimal drawdown of the static water table and usually employs a flow cell in which geochemical parameters are continuously monitored. These parameters may include dissolved oxygen content, oxidation-reduction potential (redox), conductivity, turbidity, and/or pH. The intent of this sampling protocol is to collect a representative sample from the monitored groundwater zone. A representative sample may be obtained when all the monitored chemical parameters have stabilized, thus quantitatively demonstrating that the sample being collected is in equilibrium with the groundwater system. The low-flow/low volume purging method (purging to parameter stability) tends to isolate the interval being sampled, which provides more accurate water-quality measurements and reduces the volume of purge water generated. This method has an advantage in that it can limit vertical mixing and volatilization of any volatile organic compounds (VOCs) in solution within the well casing or borehole, as compared to high-flow purging and sampling (e.g., air-lift sampling method).

*Figure 4* illustrates the QED Environmental Systems, Inc. low-flow sampling equipment. The bladder pump is placed in the monitor well and powered by a fuel source of compressed gas. The peristaltic action of the pump lifts water from the well and initiates flow through the well screen at the location where the drop tube and intake assembly have been placed. An electric wire sounder
is used to measure drawdown to insure minimal drawdown is caused by pumping the well. Water-quality parameters are monitored at the flow cell as the well is purged.

The low-flow/low-volume purging method of sample collection has been described in groundwater monitoring literature since the mid-1980s with a defined methodology being accepted by the U.S. EPA in 1995. These protocols are summarized below as adopted by MPWMD staff:

1. **Flow rate**

   The flow rate used during purging must be low enough to avoid increasing the water turbidity. The following measures should be taken to determine the appropriate flow rate: (a) The flow rate shall be determined for each well, based on the hydraulic performance of the well; (b) The flow must be adjusted to obtain stabilization of the water level in the well as quickly as possible; (c) The maximum flow rate used should not exceed 1 liter per minute (0.26 gpm); (d) Once established, this rate should be reproduced with each subsequent sampling event; (e) If a significant change in initial water level occurs between events, it may be necessary to re-establish the optimum flow rate at each sampling event.

2. **Measurement of water level and drawdown**

   Measurement of the water level in the well during purging is important when establishing the optimum flow rate for purging. The goal is to achieve a stabilized pumping water level as quickly as possible with minimal drawdown, to avoid stressing the formation and mobilizing solids, and to obtain stabilized indicator parameters in the shortest time possible.

3. **Measurement of indicator parameters**

   Continuous monitoring of water-quality indicator parameters is used to determine when purging is completed and sampling should begin. Measurement of indicator parameters (dissolved oxygen content, redox potential, specific conductance, temperature and pH) is required. This is most easily performed using an in-line flow cell (closed) system attached directly to the pump discharge tubing. For turbidity measurement, a separate field nephelometer should be used.

   If portable systems are used, they must be placed carefully into the well and lowered into the screen zone as slowly as possible. Placement of the portable pump can disturb the groundwater flow conditions resulting in non-equilibrium conditions. As a result, longer purge times and greater purge volumes may be necessary to achieve indicator parameter stabilization. In general, this may require that after installation, the portable pump should remain in place for a minimum of 1-2 hours to allow settling of solids and re-establishment of horizontal flow through the screen zone. If initial turbidity readings are excessive (>50 NTU), pumping should cease and the well should rest for another 1-2 hours before initiating pumping again. In wells set in very fine-grained formations, longer waiting periods may be required. Continuous water-level measurement devices
are preferred, such as down-hole pressure transducers, but electronic water-level tapes can be used. The devices used must be capable of measuring to 0.01-foot precision.

4. Sample Collection

Water samples for laboratory analyses must be collected before water has passed through the flow-through cell (use a by-pass assembly or disconnect cell to obtain sample). VOC samples should be collected first and directly into pre-preserved sample containers. All sample containers are filled by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence. During purging and sampling, the tubing should remain filled with water so as to minimize possible changes in water chemistry upon contact with the atmosphere.

MPWMD Coastal Monitor Wells Water-Quality Results

Water chemistry analytical results for the samples collected during the first two quarters of WY 2010 are provided in the table in Appendix 1. This table and other water-level data tables in this document were prepared utilizing the “report” feature of the groundwater resources database that was created for the Watermaster in 2007.

In general, the chemical data from WY 2010 first and second quarter samplings of these monitor wells do not show significant changes relative to the results provided in WY 2009, and are not indicative of seawater intrusion into the basin at the locations and depths of these monitor well completions. This is consistent with the conclusions drawn in the Water Year 2009 Seawater Intrusion Analysis Report (SIAR WY2009) prepared by Hydrometrics, LLC.

WATER-LEVEL DATA: BASIN MONITOR AND PRODUCER WELLS

Basin monitor wells and basin producer active and inactive wells with water-level data collected during the first two quarters of WY 2010 are provided in Appendix 2. The general locations of these wells are shown on Figure 5. The Watermaster has requested that producers collect and report “static”, i.e., non-pumping, water-level measurements. The purpose for this is so these measurements will more closely approximate ambient groundwater-level conditions, and facilitate the plotting of well water-level hydrographs. Occasionally, water-level measurements have been collected and reported while the well was in operation. In some cases, this may be due to the fact that the well can not be taken offline to collect a static water-level measurement because of pumping demand requirements. These occurrences have been recorded in the comments section of Appendix 2. These water-level data were collected primarily with manual water-level sounding devices by producers or by the MPWMD on behalf of the Watermaster.

These water-level data have been entered into the Watermaster database. The table in Appendix 2 was generated by obtaining a data dump from the Watermaster database and using the report feature in MS Access. The new table format for this WY 2010 report includes additional information relative to each well and its monitoring schedule. This format will be used as a
template to improve the web-based reporting feature of the database. Because this feature is still under development, future water-level tables may differ slightly from the one included in this report.

It should be noted that the table in Appendix 2 includes the “reference-point elevations” that were recently surveyed for each well, as part of work conducted for the Watermaster. The reference point elevations were established at the water-level data collection point at each wellhead. The reference point elevations are tied to the North American Vertical Datum of 1988 (NAVD88). The measurements in NAVD88 datum have been adjusted for the Watermaster’s use by subtracting 2.97 feet to conform to local Mean Sea Level (MSL) reference, based on data provided by the surveyor. The “depth to water” measurement at each well is subtracted from the reference-point elevation to obtain the “water elevation” relative to MSL, as shown in the column to the right of the “depth to water” column of the table.

Water-level hydrographs for the MPWMD monitor wells located in the Northern Coastal Sub Area and the Watermaster Sentinel wells are included in Appendix 3. The long-term hydrograph figures for the MPWMD monitor wells were generated to provide historical static water-level data for the wells with longer data records in the Seaside Groundwater Basin. The Sentinel well hydrographs were included to comply with monthly water-level reporting requirements.

Appendix 4 contains graphs of the continuous water level records collected from the Sentinel Wells for the first and second quarters of WY 2010. It should be noted the instrument in Sentinel Well #4 malfunctioned during the second quarter which resulted in data corruption for the device. Therefore, data from this well is not included in this appendix. The device has been sent back to the manufacturer for repair.

**CONCLUSIONS**

- Due to actions by the Watermaster in WY 2009 to notify and remind basin producers of their obligations to collect required groundwater level and groundwater quality data from their wells, the availability of these data to assist in analysis of the basin’s groundwater resources has greatly improved compared to prior years.
- The chemical data from the first and second quarters of WY 2010 for the MPWMD dedicated coastal monitor wells do not show significant changes relative to previous samplings, and are not indicative of seawater intrusion into the basin at the locations and depths of these monitor wells. This conclusion continues to be supported by work completed last year for the Watermaster as documented in the WY 2009 Seawater Intrusion Analysis Report prepared by HydroMetrics, LLC.
- Based on the water-level data collected during first and second quarter of WY 2010, water-level elevations varied from -50.86 feet mean sea level (MSL) (Well No. 107) to +55.48 feet MSL (Well No. 177) in the coastal subareas of the basin, and from -18.49 feet MSL (Well No. 119) to +249.70 feet MSL (Well No. 139) in the inland subareas of the basin.
- Based on the long-term water-level hydrographs for coastal monitor wells presented in Appendix 3, the trend of declining groundwater levels is continuing in the deeper Santa
Margarita aquifer monitor wells, whereas groundwater levels have generally stabilized, and in a few cases displayed an overall increase in the shallower Paso Robles aquifer.

RECOMMENDATIONS

- The newly-initiated water-quality sampling methodology (i.e., the low-flow sampling method) should continue to be employed during the upcoming year. Based on the experience and water-quality record generated by this collection method during the next year, consideration should be given to altering (i.e., reducing) the sampling frequency of selected quarterly monitor wells that continue to exhibit stable water-quality results. Where feasible, water quality at selected locations may be supplemented with continuous water-quality dataloggers to offset the reduction in sample collection frequency.

- Deploying dedicated low-flow sampling equipment in the quarterly water-quality monitoring wells should be continued. Dedicated sampling equipment left in the monitoring wells greatly reduces staff resources required to obtain quarterly water-quality samples and results in an overall cost reduction in the long run.

- Given that the geophysical and water-quality data that have been collected since the installation of the Watermaster’s coastal Sentinel Wells in 2007 have not shown any emerging trends or significant variations since this monitoring began, it is recommended that the frequency of induction logging at these sites continue to be collected semi-annually; this reduction in frequency from former quarterly monitoring will not unduly compromise the utility of the monitoring program.

- Groundwater quality samples should be obtained from the Camp Huffman well during the fourth quarter of WY 2010 for comparison to the samples collected immediately following well construction. Equipment required for sampling should be obtained during the third quarter of WY 2010.
### SUMMARY OF MPWMD COASTAL SEASIDE BASIN GROUNDWATER QUALITY MONITOR WELLS

<table>
<thead>
<tr>
<th>Site</th>
<th>Well Name</th>
<th>Location Description</th>
<th>Well Number</th>
<th>Date Drilled</th>
<th>DWR Drillers Log</th>
<th>Hole Depth (feet)</th>
<th>Well Depth (feet)</th>
<th>Screened Interval (feet)</th>
<th>Strata Seal (feet)</th>
<th>Casing Type</th>
<th>Geologic Unit</th>
<th>E-Log Elevation (feet AMSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSC</td>
<td>former MSC mine north of Playa Ave. and west of Hwy. 1</td>
<td></td>
<td>15S/1E-15N3</td>
<td>5/25/990</td>
<td>33841D</td>
<td>720</td>
<td>695</td>
<td>490 - 680</td>
<td>95 - 275</td>
<td>2&quot; pvc</td>
<td>QTp</td>
<td>80.1</td>
</tr>
<tr>
<td>MSC-SHallow</td>
<td>approx. 10' S of north property line</td>
<td></td>
<td>15S/1E-15N2</td>
<td>5/25/990</td>
<td>338425</td>
<td>920</td>
<td>865</td>
<td>810 - 850</td>
<td>725 - 775</td>
<td>2&quot; pvc</td>
<td>Tsm yes</td>
<td>80.29</td>
</tr>
<tr>
<td>MSC-Deep</td>
<td>approx. 7' E of MSC-SHallow</td>
<td></td>
<td>15S/1E-15N2</td>
<td>5/25/990</td>
<td>338425</td>
<td>920</td>
<td>865</td>
<td>810 - 850</td>
<td>725 - 775</td>
<td>2&quot; pvc</td>
<td>Tsm yes</td>
<td>80.29</td>
</tr>
<tr>
<td>PCA WEST</td>
<td>former PCA mine W of Hwy. 1</td>
<td></td>
<td>15S/1E-15N3</td>
<td>5/25/990</td>
<td>338400</td>
<td>600</td>
<td>585</td>
<td>525 - 575</td>
<td>120 - 150</td>
<td>2&quot; pvc</td>
<td>QTp</td>
<td>64.22</td>
</tr>
<tr>
<td>PCA-W-Shallow</td>
<td>approx. 200' SE of ocean bluff</td>
<td></td>
<td>15S/1E-15F1</td>
<td>3/28/990</td>
<td>338400</td>
<td>863</td>
<td>410</td>
<td>350 - 400</td>
<td>110 - 150</td>
<td>2&quot; pvc</td>
<td>QTp</td>
<td>68.51</td>
</tr>
<tr>
<td>PCA-W-Deep</td>
<td>approx. 50' E of PCA-W-Shallow</td>
<td></td>
<td>15S/1E-15F2</td>
<td>3/90</td>
<td>338401</td>
<td>900</td>
<td>885</td>
<td>825 - 875</td>
<td>760 - 790</td>
<td>2&quot; pvc</td>
<td>Tsm yes</td>
<td>65.18</td>
</tr>
<tr>
<td>PCA EAST</td>
<td>vacant lot NE of Seaside High baseball field</td>
<td></td>
<td>15S/1E-15K5</td>
<td>4/16/990</td>
<td>338402</td>
<td>863</td>
<td>410</td>
<td>350 - 400</td>
<td>110 - 150</td>
<td>2&quot; pvc</td>
<td>QTp</td>
<td>68.51</td>
</tr>
<tr>
<td>PCA-E-Deep</td>
<td>approx. 300' E of Monterey Rd, 50' N fence</td>
<td></td>
<td>15S/1E-15K5</td>
<td>4/16/990</td>
<td>338402</td>
<td>863</td>
<td>410</td>
<td>350 - 400</td>
<td>110 - 150</td>
<td>2&quot; pvc</td>
<td>QTp yes</td>
<td>68.51</td>
</tr>
<tr>
<td>PCA-E-Shallow</td>
<td>(same borehole as shallow well)</td>
<td></td>
<td>15S/1E-15K4</td>
<td>4/16/990</td>
<td>338402</td>
<td>863</td>
<td>710</td>
<td>650 - 700</td>
<td>580 - 620</td>
<td>2&quot; pvc</td>
<td>Tsm yes</td>
<td>68.54</td>
</tr>
<tr>
<td>ORD TERRACE</td>
<td>Ord Terrace School property south of Ord Grove Ave.</td>
<td></td>
<td>15S/1E-23Ca</td>
<td>8/5/999</td>
<td>---</td>
<td>530</td>
<td>340</td>
<td>280 - 330</td>
<td>0 - 260</td>
<td>2&quot; pvc</td>
<td>upper Tsm</td>
<td>228.65</td>
</tr>
<tr>
<td>OT-Deep</td>
<td>(same borehole as shallow well)</td>
<td></td>
<td>15S/1E-23Cb</td>
<td>8/5/999</td>
<td>---</td>
<td>530</td>
<td>450</td>
<td>390 - 440</td>
<td>350 - 377</td>
<td>2&quot; pvc</td>
<td>lower Tsm yes</td>
<td>228.63</td>
</tr>
<tr>
<td>M PWM D # FO-09</td>
<td>E of Hwy. 1, SE of Okinawa Rd.</td>
<td></td>
<td>15S/1E-11Pa</td>
<td>8/16/994</td>
<td>---</td>
<td>1100</td>
<td>660</td>
<td>630 - 650</td>
<td>500 - 540</td>
<td>2&quot; pvc</td>
<td>QTp (?)</td>
<td>118.89</td>
</tr>
<tr>
<td>#9-Deep</td>
<td>(same borehole as shallow well)</td>
<td></td>
<td>15S/1E-11Pb</td>
<td>8/16/994</td>
<td>---</td>
<td>1100</td>
<td>840</td>
<td>790 - 830</td>
<td>700 - 765</td>
<td>2&quot; pvc</td>
<td>Tsm (?) yes</td>
<td>118.85</td>
</tr>
<tr>
<td>M PWM D # FO-10</td>
<td>south of Light Fighter Drive, behind Barker Theater Building</td>
<td></td>
<td>15S/1E-12Fa</td>
<td>9/3/996</td>
<td>---</td>
<td>1500</td>
<td>650</td>
<td>620 - 640</td>
<td>480 - 500</td>
<td>2&quot; pvc</td>
<td>QTp (?)</td>
<td>200.85</td>
</tr>
<tr>
<td>#10-Shallow</td>
<td>(same borehole as shallow well)</td>
<td></td>
<td>15S/1E-12Fc</td>
<td>9/3/996</td>
<td>---</td>
<td>1500</td>
<td>1420</td>
<td>1380 - 1410</td>
<td>1280 - 1300</td>
<td>2&quot; pvc</td>
<td>Tsm (?) yes</td>
<td>201.03</td>
</tr>
</tbody>
</table>

### NOTES:
1. Official State well numbers end with a numeral; unofficial MPWMD well numbers end with a small case letter.
2. Geologic Unit refers to the unit adjacent to the screened interval: QTp = Paso Robles Formation; Tsm = Santa Margarita Sandstone.
3. Elevation refers to the water level reference point elevation surveyed by Central Coast Surveyors. For additional information, see "Documentation of 2008 Well Elevation Surveys", MPWMD Seaside Basin Watermaster Memorandum 2008-05.
5. Well completion data at site PCA West and PCA East are documented in "Hydrogeologic Investigation, PCA Well Aquifer Test", SGD, July 1990.
8. Two dashes (i.e., "--") indicate multiple screened intervals.
9. Three dashes (i.e., "---") indicate not applicable or not available.
Figure 1. Location of Weather Station KMRY and Average Annual Rainfall for the Seaside Groundwater Basin, Seaside, CA

Legend
Annual Rainfall (inches)
- 15
- 17
- 19

Seaside Groundwater Basin

Datasources: Rainfall Totals - Monterey County Photobase - AMBAG 2005

Locations are approximate based on MPWMD files.
Figure 2. Daily and Cumulative Rainfall recorded at Weather Underground Weather Station KMRY for First and Second Quarters of the 2010 Water Year, Seaside, California

Data from www.weatherunderground.com
Station Coordinates 36.59, -121.84
Figure 3. Seaside Groundwater Basin Watermaster Monitoring Well Network, Seaside, CA
Figure 4. Low Flow Groundwater Sampling System
Presented in Cartoon and Photograph
Figure 5. Seaside Groundwater Basin Watermaster Wells by Category, Seaside, CA
Appendix 1

Seaside Basin Groundwater Quality Monitoring Results

First and Second Quarters of WY 2010
## GROUND WATER QUALITY MONITORING RESULTS

First and Second Quarters WY 2010

<table>
<thead>
<tr>
<th>Date Of Sample</th>
<th>Specific Conductance (mS/cm)</th>
<th>Total Alkalinity (as CaCO3)</th>
<th>pH (units)</th>
<th>Chloride</th>
<th>Sulfate</th>
<th>Ammonia Nitrogen (as NH₃)</th>
<th>Nitrate Nitrogen (as NO₃)</th>
<th>Total Organic Carbon</th>
<th>Calcium</th>
<th>Sodium</th>
<th>Magnesium</th>
<th>Potassium</th>
<th>Iron</th>
<th>Manganese</th>
<th>Orthophosphate</th>
<th>Total Dissolved Solids (as CaCO₃)</th>
<th>Hardness</th>
<th>Boron</th>
<th>Bromide</th>
<th>Fluoride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Number: 101 Name: MSC-Shallow</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2/23/2010</td>
<td>305</td>
<td>74</td>
<td>7.8</td>
<td>34</td>
<td>16</td>
<td>&lt;0.05</td>
<td>&lt;1</td>
<td>0.45</td>
<td>18</td>
<td>33</td>
<td>5</td>
<td>2.9</td>
<td>&lt;0.050</td>
<td>0.030</td>
<td>&lt;0.1</td>
<td>205</td>
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Appendix 2
Seaside Basin Groundwater Level Monitoring Results
First and Second Quarters of WY 2010
# Groundwater Level Monitoring Data

for the Seaside Groundwater Basin

Water Year 2010 First and Second Quarter

Assembled by MPWMD for the Seaside Watermaster

<table>
<thead>
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<th>Well Category: Producer</th>
<th>Sub Area: Northern Coastal</th>
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## Watermaster Well 151 CAW - Military

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<th>Owner: California American Water</th>
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**Owner:** California American Water  
**Aquifer:** QTc/Tsm Northern Coastal Producer  
**Screen:** -  
**Monitored:** Monthly  
**Monitored by:** CAW  
**Sub Area:** Southern Coastal  
**Well Category:** Producer

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**Owner:** California American Water  
**Aquifer:** QTc Northern Coastal Producer  
**Screen:** -  
**Monitored:** Monthly  
**Monitored by:** CAW  
**Sub Area:** Southern Coastal  
**Well Category:** Producer

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**Well Category:** Producer  
**Sub Area:** Southern Inland

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### Watermaster Well 210 Bishop #2 (east)

**State Well No.:** 16S02E05Fb  
**Owner:** California American Water  
**Aquifer:** QTc/Tsm  
**Monitored:** Monthly  
**Monitored by:** CAW

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### Watermaster Well 212 York School 01-349

**State Well No.:** 15S01E36Qa  
**Owner:** York School  
**Aquifer:** QTc/Tsm  
**Monitored:** Monthly  
**Monitored by:** MPWMD

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### Watermaster Well 213 Ryan Ranch #7

**State Well No.:** 16S01E01E50  
**Owner:** California American Water  
**Aquifer:** Tsm  
**Monitored:** Monthly  
**Monitored by:** CAW

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### Watermaster Well 215 Ryan Ranch #11
State Well No. 16S01E01Cd  
Owner: California American Water  
Aquifer: TsmSouthern Inland Producer  
Screen: -  

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### Watermaster Well 216 Ryan Ranch #8
State Well No. 16S01E01T54  
Owner: California American Water  
Aquifer: TsmSouthern Inland Producer  
Screen: -  

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### Watermaster Well 226 Bay Ridge
State Well No. 16S02E09Cd  
Owner: California American Water  
Aquifer: QTc/TsmSouthern Inland Producer  
Screen: -  

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**State Well No. 15S01E15N3**  
Owner: MPWMD  

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**Screen:** 490 - 680  
**Aquifer:** QTc  

### Watermaster Well 102 MSC-Deep

**State Well No. 15S01E15N2**  
Owner: MPWMD  

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**Screen:** 810 - 850  
**Aquifer:** Tsm
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### Watermaster Well 107 Ord Grove Test

**State Well No.** 15S01E23B1  **Owner:** California American Water

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**Aquifer:** QTc/TsmNorthern Coastal Monitor

**Screen:** 355 480

**Comment:**

### Watermaster Well 108 Paralta Test

**State Well No.** 15S01E14Ra  **Owner:** MPWMD

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**Aquifer:** QTc/Tsm

**Screen:** 430 800

**Comment:**

### Watermaster Well 109 Ord Terrace-Shallow

**State Well No.** 15S01E23Ca  **Owner:** MPWMD

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**Aquifer:** Tsm (upper)

**Screen:** 280 330

**Comment:**
### Watermaster Well 110  Ord Terrace-Deep

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**State Well No.** 15S01E23Cb  **Owner:** MPWMD

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**Aquifer:** Tsm (lower)

### Watermaster Well 111  MPWMD #FO-09-Shallow

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**State Well No.** 15S01E11Pa  **Owner:** MPWMD

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**Aquifer:** QTc/Tp

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**State Well No.** 15S01E11Pb  **Owner:** MPWMD

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**Aquifer:** Tsm

**Monitored by:** MPWMD  **Monitored:** Monthly
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**Watermaster Well 163 CAW - Playa #4**

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**Watermaster Well 243 Luxton**

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**State Well No.** 15S01E02Pa  **Owner:** MPWMD  **Aquifer:** Qod/Qar

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**State Well No.** 15S01E15Ga  **Owner:** MPWMD  **Aquifer:** Qod/Qar
### Watermaster Well 254 MW-B-22-180

**State Well No.** 15S01E12Da  **Owner:** U.S.A. Fort Ord  
**Aquifer:** Northern Coastal Monitor  
**Screen:** -  
**Monitored:** Monthly  
**Monitored by:** MPWMD

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### Watermaster Well 258 MW-B-23-180

**State Well No.** 15S01E11Ba  **Owner:** U.S.A. Fort Ord  
**Aquifer:** Qod/Qar  
**Screen:** -  
**Monitored:** Monthly  
**Monitored by:** MPWMD

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### Watermaster Well 115 MPWMD #FO-01-Shallow

**State Well No.** 15S01E26Ba  **Owner:** MPWMD  
**Aquifer:** QTc  
**Screen:** 310 320  
**Monitored:** Quarterly  
**Monitored by:** MPWMD

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**Well Category:** Monitor  
**Sub Area:** Northern Inland
### Watermaster Well 116 MPWMD #FO-01-Deep

State Well No. 15S01E26Bb  Owner: MPWMD

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**Aquifer:** Tm

**Screen:** 450 - 460

**Monitored:** Quarterly

**Monitored by:** MPWMD

---

### Watermaster Well 118 MPWMD #FO-07-Shallow

State Well No. 15S01E13La  Owner: MPWMD

<table>
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<th>Reference Point</th>
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<th>Comments</th>
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**Aquifer:** QTc

**Screen:** 600 - 640

**Monitored:** Monthly

**Monitored by:** MPWMD

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### Watermaster Well 119 MPWMD #FO-07-Deep

State Well No. 15S01E13Lb  Owner: MPWMD

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**Aquifer:** Tsm

**Screen:** 800 - 840

**Monitored:** Monthly

**Monitored by:** MPWMD

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### Watermaster Well 120 MPWMD #FO-08-Shallow

State Well No. 15S01E12Qa  Owner: MPWMD

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**Aquifer:** QTc

**Screen:** 740 - 780

**Monitored:** Monthly

**Monitored by:** MPWMD
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**Watermaster Well 121 MPWMD #FO-08-Deep**

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**Watermaster Well 122 MPWMD #FO-11-Shallow**

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**State Well No.:** 15S02E7Bb  
**Owner:** MPWMD  
**Screen:** 1090 - 1120  
**Aquifer:** Tp  

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### Watermaster Well 188 ASR - 1

**State Well No.:** 15S01E23Ad  
**Owner:** MPWMD  
**Screen:**     
**Aquifer:** Tsm  

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**Owner:** MPWMD  
**Screen:**     
**Aquifer:** Tsm  

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### Well Category: Monitor  
### Sub Area: Southern Coastal

### Watermaster Well 124 Plumas '90 Test

**State Well No.:** 15S01E27J6  
**Owner:** MPWMD  
**Screen:** 430 - 470  
**Aquifer:** Tsm  

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## Watermaster Well 241 MW-BW-09-180

**State Well No.** 15S01E26Fa  **Owner:** U.S.A. Fort Ord  
**Monitored:** Monthly  
**Monitored by:** MPWMD  
**Aquifer:** QTc  

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## Watermaster Well 244 Hilby MGT

**State Well No.** 15S01E26Da  **Owner:** California American Water  
**Monitored:** Monthly  
**Monitored by:** CAW  
**Aquifer:** QTc  

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## Well Category: Monitor  
**Sub Area:** Southern Inland

## Watermaster Well 127 MPWMD #FO-03-Deep

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**Monitored:** Quarterly  
**Monitored by:** MPWMD  
**Aquifer:** Tsm  

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**Watermaster Well 135 Justin Court (RR M2S)**

State Well No. 15S01E35Jb  
Owner: California American Water  
Monitored: Quarterly  
Monitored by: MPWMD  
Aquifer: QTc  
Screen: 135 - 155

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**Watermaster Well 136 LS Pistol Range (Mo Co TH-1)**

State Well No. 15S02E32Ra  
Owner: County of Monterey  
Monitored: Quarterly  
Monitored by: MPWMD  
Aquifer: Tsm  
Screen: 430 - 470

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**Watermaster Well 137 York Rd-West (Mo Co MW-1 D)**

State Well No. 15S01E36Rb  
Owner: County of Monterey  
Monitored: Quarterly  
Monitored by: MPWMD  
Aquifer: Tsm  
Screen: 560 - 600

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**Watermaster Well 138 Seca Place (Mo Co MW-2)**

State Well No. 16S02E04Lc  
Owner: County of Monterey  
Monitored: Quarterly  
Monitored by: MPWMD  
Aquifer: Tsm  
Screen: 930 - 980

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**Watermaster Well 139 Robley Shallow (North) (Mo Co MW-3S)**

State Well No. 16S02E09Bb  
Owner: County of Monterey  
Monitored: Quarterly  
Monitored by: MPWMD  
Aquifer: QTc  
Screen: 380 - 420

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Appendix 3

Selected Hydrographs

Water Year 2010
Watermaster Well No. 113 - MPWMD FO-10 (Shallow) (15S/1E-11Fa)

Screened from 480-500 in the Paso Robles (QTp)
Wellhead Elevation 200.85 MSL
DWR Driller Log No. N/A
Datasource: MPWMD

Monterey Peninsula
Water Management District
Watermaster Well No. 114 - MPWMD FO-10 (Deep) (15S/1E-15Fc)

Screened from 790-830 in the Santa Margarita Formation (Tsm)

Wellhead Elevation 201.03 MSL

DWR Driller Log No. N/A

Datasource: MPWMD
Watermaster Well No. 111 - MPWMD FO-09 (shallow) (15S/1E-11Pa)

Screened from 610-650 in the Paso Robles (QTp)

Wellhead Elevation 118.89 MSL

DWR Driller Log No. N/A

Datasource: MPWMD
Monterey Peninsula Water Management District

Watermaster Well No. 112 - MPWMD FO-09 (Deep) (15S/1E-15Pb)

Screened from 790-830 in the Santa Margarita Formation (Tsm)
Wellhead Elevation 188.85 MSL
DWR Driller Log No. N/A
Datasource: MPWMD
Watermaster Well Number 102 - MSC-Deep (15S/1E-15N2)
Screened from 810-850 in the Santa Margarita Formation (Tsm)
Wellhead Elevation 80.29 MSL
DWR Driller Log No. 338425
Datasource: MPWMD
Watermaster Well No. 105 - PCA East (Shallow) (15S/1E-15K5)

Screened from 350-400 in the Paso Robles Formation (Qtp)
Wellhead Elevation 68.51 MSL
DWR Driller Log No. 338402
Datasource: MPWMD
Watermaster Well Number 101 - MSC-Shallow (15S/1E-15N3)
Screened from 490-680 in the Paso Robles Formation (QTp)
Wellhead Elevation 80.1 MSL
DWR Driller Log No. 338413
Watermaster Well Number 102 - MSC-Deep (15S/1E-15N2)
Screened from 810-850 in the Santa Margarita Formation (Tsm)
Wellhead Elevation 80.29 MSL
DWR Driller Log No. 338425
Datasource: MPWMD
Appendix 4

Watermaster Sentinel Well Hydrographs

Water Year 2010
Water Level Elevation for Seaside Groundwater Basin Watermaster Sentinel Well 2 for the 1st and 2nd Quarters of WY 2010, Seaside, CA