

ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020



September 2021

**PREPARED BY
SANTA MARGARITA RIVER WATERSHED WATERMASTER**

UNITED STATES OF AMERICA
v.
FALLBROOK PUBLIC UTILITY DISTRICT, ET AL.

CIVIL NO. 51-cv-1247-GPC-RBB

WATERMASTER
SANTA MARGARITA RIVER WATERSHED
101 Parkshore Drive
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September 21, 2021

Honorable Gonzalo P. Curiel
United States District Court
Southern District of California
221 West Broadway, Suite 2190
San Diego, CA 92101

Re: U.S.A. v. Fallbrook Public Utility District, et al., Civil No. 51-cv-1247-GPC-RBB
Final Annual CWRMA Report for Calendar Year 2020

Dear Judge Curiel:

In accordance with Section 13 of the Cooperative Annual Water Resource Management Agreement (CWRMA), approved by the Court on August 20, 2002, the Watermaster has prepared the Annual CWRMA Report for Calendar Year 2020. The report was prepared in consultation with the CWRMA Technical Advisory Committee and has been approved by the signatory parties to the CWRMA. Accordingly, please find the enclosed hard copy and CD containing the PDF files for the final Annual CWRMA Report for Calendar Year 2020. Please make arrangements for posting the PDF files on the electronic docket.

If you have any questions please do not hesitate to call. Thank you.

Sincerely,



Michael J. Preszler, P.E.
Watermaster

rah:MJP
Enclosures
cc (w/o Encls.): Honorable Ruben B. Brooks
cc (w/ Electronic Copy of Encl.): Distribution List

Honorable Gonzalo P. Curiel
Re: Final Annual CWRMA Report for Calendar Year 2020
September 21, 2021
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Major Water Purveyors
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Bound at back of report

1. Introduction

1.1 Background

On August 20, 2002, the Cooperative Water Resource Management Agreement (CWRMA) between the United States, on behalf of Marine Corps Base Camp Pendleton (Camp Pendleton), and Rancho California Water District (District) was approved by the United States District Court in United States of America v. Fallbrook Public Utility District, et al. (Civil No. 51-cv-1247-GPC-RBB) (Fallbrook Case). The Court Order (Docket Nos. 4867 and 4869) incorporated CWRMA into the Judgment as adjudicated in the Fallbrook Case. The purpose of CWRMA is to allow Camp Pendleton and the District to effectively manage water resources consistent with prior rights and entitlements while avoiding potential conflicts. These prior rights and entitlements are derived from the Fallbrook Case that incorporates the stipulated judgment in Rancho Santa Margarita v. Vail, San Diego Superior Court Action No. 42850 (1940 Judgment). The parties agreed and the Court ordered that, to the extent the provisions of CWRMA are inconsistent with the 1940 Judgment, the provisions of CWRMA shall control for so long as CWRMA is being complied with and in effect.

The CWRMA includes provisions for guaranteed flows for the Santa Margarita River near Temecula (USGS Gaging Station No. 11044000) commonly referred to as the Gorge. Other provisions include monitoring and operation of the groundwater resources upstream of the Gorge, and monitoring of operations under CWRMA to assess impacts on water supply, water quality, and riparian habitat within Camp Pendleton. The CWRMA is administered by the Santa Margarita River Watershed Watermaster (Watermaster) appointed by the Court in the Fallbrook Case, in consultation with a Technical Advisory Committee (TAC). The Major Water Purveyors map at the end of this report shows the watershed boundary, major streams and reservoirs, boundaries for the major water purveyors, and other geographical features of interest. The CWRMA Location Map also included at the end of this report provides an enlargement of the primary area pertaining to CWRMA and displays key gages, groundwater monitoring wells, selected groundwater production wells, and other features for implementation of CWRMA.

1.2 Purpose of Report

Section 13 of CWRMA specifies the Watermaster shall prepare an annual report regarding the performance under the various provisions of CWRMA for filing in the Fallbrook Case. Prior Annual Watermaster Reports served as the annual report specified under CWRMA for submission to the Court. Beginning in Calendar Year 2011, a separate annual report has been prepared and submitted to the Court to meet the requirements of CWRMA. The Annual Watermaster Report continues to include a section dedicated to CWRMA, focusing on the accounting and operations related to Make-Up Water releases and flow requirements for the Santa Margarita River at the Gorge. The Annual CWRMA Report is prepared by the

Watermaster in consultation with the TAC and incorporates materials prepared by Camp Pendleton, the District, and the United States Geological Survey (USGS).

1.3 Activities for Calendar Year 2020

1.3.1 Ongoing Activities

Several ongoing activities are conducted in accordance with CWRMA and such activities are described and reported in subsequent sections of the Annual CWRMA Report. Ongoing activities include conducting quarterly TAC meetings, determination of hydrologic year type, operation and accounting for Make-Up Water and flow requirements at the Gorge, monitoring under the programs specified in Sections 5(g) and 7(d) of CWRMA, water quality monitoring, and actions related to the CWRMA Groundwater Model.

The TAC is chaired by the Watermaster and includes representatives of Camp Pendleton, and the District. Quarterly TAC meetings are conducted with agenda items related to implementation of CWRMA. Minutes and other meeting materials are maintained in the Watermaster files. During 2020, upon agreement by the parties, the meetings scheduled for January 14 and April 14 were cancelled. The TAC reconvened virtually for the regularly scheduled quarterly TAC meetings on July 21 and October 20. Further, a special virtual meeting was held on December 10 to address Watermaster questions regarding implementation and accounting of the CWRMA.

1.3.2 Other Activities

Other activities related to CWRMA are also described and reported in subsequent sections of the Annual CWRMA Report. These other activities for 2020 include continuation of the California Statewide Groundwater Elevation Monitoring (CASGEM) program and the Sustainable Groundwater Management Act (SGMA).

2. Flow Requirements and Accounts

2.1 Make-Up Water

Section 5 of CWRMA includes provisions for the District to guarantee specific flows at the Gorge. These guaranteed flows, or flow requirements, are determined based upon stipulated methodologies and vary on a monthly basis depending upon hydrologic conditions. At a minimum, the District guarantees that flows, based on a 10-day running average, shall at no time be less than 3.0 cubic feet per second (cfs).

In order to meet the flow requirements, the District provides Make-Up Water in accordance with Section 6 of CWRMA. The Make-Up Water can be supplied from various sources; however, the District relies on two primary sources, both discharging into the river at the same location immediately upstream from the USGS gaging station at the Gorge. The first primary source of Make-Up Water is raw water from Metropolitan Water District (MWD) Aqueduct No. 5 discharged at Outlet WR-34. The second primary source of Make-Up Water is from the District's treated water distribution system through a potable connection to the pipeline for

Outlet WR-34. In prior years, Make-Up Water was also discharged from the treated water distribution system to Murrieta Creek from two system discharge meters collectively referred to as the System River Meter. The two system discharge meters are located on opposite sides of Murrieta Creek immediately downstream of the USGS gaging station for Murrieta Creek at Temecula, which is located approximately 2,000 feet upstream of the confluence of Temecula Creek and Murrieta Creek. The System River Meter is operable as a secondary source of Make-Up Water if needed. Outlet WR-34 and the USGS gaging station at the Gorge are shown on the CWRMA Location Map.

2.2 Accounting Procedures

The methods of accounting for the operations under CWRMA are specified in Sections 5 and 6 of CWRMA. Specific accounting procedures have evolved since the implementation of CWRMA in 2003. On April 21, 2006, Camp Pendleton and the District signed an accounting agreement to memorialize methods used for years 2003, 2004, and 2005, and also to agree upon specific procedures and definitions. The accounting definitions agreed to by Camp Pendleton and the District are shown on Table 1.

A flow tracking spreadsheet has been developed through a joint effort by staff and consultants for Camp Pendleton and the District. The spreadsheet is used on a daily basis by the District to manage Make-Up Water releases and track the various accounts. The spreadsheet is updated at the end of each calendar year through a joint exchange of information to reach agreement concerning the annual operations and accounting.

Table 1
Definition of Terms
Cooperate Water Resource Management Agreement

<p>Minimum Daily Flow Requirement “The <i>Minimum Daily Flow Requirement</i> for each winter period shall be 11.5 cfs, less any credit unused in a previous year, and less any credit established by the May 1st accounting of the prior year” [§5(b)]. “The <i>Minimum Daily Flow Requirement</i> is ... calculated on a 10-day running average” [§5(b)]. The winter period <i>Minimum Daily Flow Requirements</i> may be further reduced by the accrual of CAP Credits “when the District is required under this Section to provide <i>Make-Up Water</i> in any calendar year in excess of 4,000 acre-feet” [§5(e)]. For the non-winter period, the “<i>Minimum Daily Flow Requirements</i> (are) based upon the particular hydrologic condition established on May 1st for the prior October-April period” [§5(c)].</p>
<p>Actual Flow Requirement “On May 1st ..., the hydrologic condition for the immediately preceding October-April period shall be determined. Such condition, and the <i>Daily Flow Requirements</i> set forth in this Section 5(b), shall be used to determine the <i>Actual Flow Requirement</i> for the prior winter period, and whether this requirement was exceeded” [§5(b)]. “Camp Pendleton may acquire rights to such groundwater above the Gorge by foregoing its right to <i>Make-Up Water</i> from the District; or to the extent that the District’s <i>Actual Flow Maintenance Requirements</i> are less than the flows in the table in Section 5” [§17]. The <i>Actual Flow Requirement</i> is equal to the <i>Minimum Daily Flow Requirement</i> during the non-winter period (once the Hydrologic Condition is known) because no credits are applied in the non-winter period.</p>
<p>Make-Up Water “The District shall provide whatever <i>Make-Up Water</i> is needed to meet this (the <i>Minimum Daily Flow</i>) requirement” [§5(b)]. “The District shall not be required to provide more than the equivalent of 11.5 cfs <i>Make-Up Water</i> for any month”. [§5(d)] “The District guarantees that flows, based upon the 10-day running average, shall at no time be less than 3.0 cfs” [§5(f)]. “Make-Up Water ... (is) required ... at the Gorge in order to comply with the requirements of Section 5” [§6].</p>
<p>Climatic Credits are those credits earned by the District on Below Normal and Critically Dry years, when the <i>Minimum Daily Flow Requirement</i> for the winter period is found to be greater than the <i>Actual Flow Requirement</i> determined on May 1st. “In providing <i>Minimum Daily Flows</i> ... if the District has provided <i>Make-Up Water</i> in excess of its <i>Actual Requirement</i>, the District shall be entitled to a credit for such excess. The quantity of the excess flow shall be converted to a cfs equivalent, and applied during the following winter periods to reduce the 11.5 cfs requirement” [§5(b)].</p>
<p>CAP Credits are those credits earned by the District when Make-Up water is in excess of 4,000 acre-feet per year. “When the District is required under this Section to provide <i>Make-Up Water</i> in any calendar year in excess of 4,000 acre-feet, measured at the Gorge, it shall be entitled to a credit for the excess, taking into account transmission losses, to be applied during the following two winter periods” [§5(e)].</p>
<p>Camp Pendleton Groundwater Bank Credits are those credits earned by Camp Pendleton when the District’s <i>Actual Flow Maintenance Requirements</i> are less than the flows in the table in Section 5. “Camp Pendleton may acquire rights to such groundwater above the Gorge by foregoing its right to <i>Make-Up Water</i> from the District; or to the extent that the District’s <i>Actual Flow Maintenance Requirements</i> are less than the flows in the table in Section 5” [§17]. “Camp Pendleton’s rights to such groundwater in storage shall not exceed 5,000 acre-feet at any one time; and ... the District’s obligation to deliver stored groundwater shall not exceed 2,200 acre-feet per year over any required makeup obligation which the District may have, and in no event at a rate in excess of 11.5 cfs” [§17].</p>
<p>Credits earned by the District serve to reduce the <i>Minimum Daily Flow Requirement</i> during the winter period. <i>Credits</i> are applied in the following order (1) Climatic Credits from 2 or more years prior, (2) Climatic Credits earned in the previous year, (3) CAP Credits earned from the previous year, and finally (4) CAP Credits from 2 years prior. “In all years following the first winter period, the same procedure shall be followed, provided that the <i>Minimum Daily Flow Requirement</i> for each winter period shall be 11.5 cfs, less any <i>credit</i> unused in a previous year, and less any credit established by the May 1st accounting of the prior year” [§5(a)].</p>

2.3 Hydrologic Condition

The flow requirements and Make-Up Water releases for any particular calendar year are determined based on the hydrologic condition for the preceding October through April period. The methodology for determining the hydrologic condition is specified in Section 5 of CWRMA. A calculated hydrologic index is used to classify the hydrologic condition as one of the following hydrologic year types: Critically Dry, Below Normal, Above Normal, and Very Wet.

The hydrologic year type is determined by the TAC on May 1st of each year. The Minimum Daily Flow Requirements at the Gorge, calculated on a 10-day running average, are specified for each month based on the hydrologic year type. The Minimum Daily Flow Requirements specified under Section 5 of CWRMA are shown on Table 2.

Table 2
Section 5 Minimum Daily Flow Requirements
Cooperative Water Resource Management Agreement

Month	Critically Dry (cfs)	Below Normal (cfs)	Above Normal (cfs)	Very Wet (cfs)
January – April	4.5	8.0	17.8*	24.1*
May	3.8	5.7	11.7*	15.7*
June	3.3	4.9	9.4	12.2*
July	3.0	4.3	7.8	9.7
August	3.0	4.4	7.6	9.2
September	3.0	4.1	7.4	9.4
October	3.0	3.9	7.7	10.1
November	3.0	4.5	8.8	11.5
December	3.3	5.3	10.4	13.5*

*Section 5(d) of CWRMA specifies the District shall not be required to provide more than the equivalent of 11.5 cfs Make-Up Water for any month.

The hydrologic condition for 2020 was determined in accordance with CWRMA procedures as reported in the May 29, 2020 memorandum prepared by Stetson Engineers, Inc. (consultant to Camp Pendleton), provided in Appendix A. The Temecula Creek near Aguanga streamflow gage (USGS Gaging Station No. 11042400) and the Wildomar precipitation gage (Riverside County Flood Control and Water Conservation District Precipitation Station No. 246) are the key sources of data used for the determination and are shown on the CWRMA Location Map.

The determination for 2020 resulted in the classification of the hydrologic condition as an Above Normal hydrologic year and thus the Minimum Daily Flow Requirements for 2020 are shown in Table 2 under the column heading for “Above Normal” hydrologic year. The determinations of the hydrologic conditions for the years 2003 through 2020 are summarized on Table 3.

Table 3
Hydrologic Conditions for Operations Under CWRMA
(2003 to Present)

Calendar Year	Hydrologic Condition
2003	Above Normal
2004	Critically Dry
2005	Very Wet
2006	Below Normal
2007	Critically Dry
2008	Above Normal
2009	Above Normal
2010	Very Wet
2011	Very Wet
2012	Critically Dry
2013	Critically Dry
2014	Below Normal
2015	Below Normal
2016	Below Normal
2017	Above Normal
2018	Critically Dry
2019	Above Normal
2020	Above Normal

2.4 Annual Accounting for 2020 CWRMA Operations

The annual accounting for CWRMA operations is prepared through a joint effort by Camp Pendleton and the District. The flow tracking spreadsheet maintained on a daily basis by the District is provided to Camp Pendleton for review and use in preparing the annual accounting.

The annual accounting for the 2020 CWRMA operations is documented in the May 13, 2021 memorandum prepared by Stetson Engineers, Inc., as provided in Appendix B-1. The memorandum provides a description of the operations during 2020, including tables showing the daily flows at the Gorge, Minimum Daily Flow Requirements, Make-Up Water releases, and account balances.

Upon agreement by Camp Pendleton and the District, CWRMA includes provisions for the parties to alter normal operations to modify the Minimum Daily Flow Requirements at the Gorge. Examples of modifying the Minimum Daily Flow Requirements include instances when the parties are conducting sampling for downstream monitoring programs or requests to avoid accumulation of CAP Credits. Such modifications of CWRMA operations are accomplished through communications between, and approval by, the parties. In 2020, the parties reached agreement to modify normal operations to minimize CAP credits for the year. This modification and the e-mail communications between the parties to reach agreement on the modification are provided in Appendix B-2.

One item of note concerns the USGS measured flows at the Gorge that are used for the daily determinations by the District for discharging Make-Up Water. Two columns of daily discharges for streamflow at the Gorge are shown in the tables in Appendix B-1: the USGS official discharge and the USGS website discharge. Camp Pendleton and the District have agreed that the discharges shown on the website are accessed daily by the District for making daily decisions regarding the quantities of Make-Up Water required and those discharges are used to compute the 10-day running average. The website discharge is considered to be provisional subject to subsequent changes by the USGS for designation as approved for official publication. Changes to the provisional data may result in either lower or higher values for the official discharge depending upon any specific adjustments. Such adjustments may be due to periodic measurements at the gage resulting in a shift to the rating curve or other changes to the data to account for equipment malfunctions and other irregularities.

It is also noted the daily tables provided in Appendix B-1 show the Minimum Daily Flow Requirement for each month as determined by the hydrologic condition and any adjustments agreed upon by the parties. The winter period includes the months January through April, and in accordance with Section 5(b) of CWRMA, the Minimum Daily Flow Requirement "...shall be 11.5 cfs, less any credit unused in a previous year, and less any credit established by the May 1st accounting of the prior year." The Minimum Daily Flow Requirement for the 2020 winter period was determined to be 11.5 cfs, as documented in the annual accounting for the 2019 CWRMA operations (May 29, 2020 memorandum prepared by Stetson Engineers, Inc.).

A summary of the annual accounting for the 2020 CWRMA operations is shown on Table 4. During Calendar Year 2020, the total releases by the District to meet CWRMA flow requirements were 4,155.3 acre feet. All water was released from the raw water source at Outlet WR-34.

The number of days each month when the 10-day running average was less than the required flow is summarized on Table 4. It is noted the number of days when the 10-day running average is less than the required flow is determined based upon the provisional website discharge, as agreed upon by the parties. For Calendar Year 2020, there were 72 days when the 10-day running average was less than the required flow under normal CWRMA operations.

The Minimum Daily Flow Requirement for the 2021 winter period is determined as part of the annual accounting for the 2020 CWRMA operations. As described on Page 1, Appendix B-1, the Minimum Daily Flow Requirement at the Gorge during the 2021 winter period is determined to be 11.2 cfs.

Table 4
Monthly Summary of Required Flows, Discharges, Credits and Accounts
Cooperative Water Resource Management Agreement

2020 Calendar Year – Above Normal Year

Month	USGS Official Discharge AF	USGS Website Daily Discharge AF	Minimum Flow Maintenance Requirement cfs 1/, 2/	Section 5 Flows cfs 3/	No. of Days 10-Day Running Average is Less Than Required Flow	Discharge from WR-34 AF 4/	Climatic Credits Earned AF 5/	Camp Pendleton Groundwater Bank 6/ Input AF	Cumulative Balance AF
January	627.3	672.0	11.5	17.8	11	426.7	0	387.5	5,000.00
February	642.0	648.9	11.5	17.8	21	443.8	0	362.5	5,000.00
March	5,226.6	5,179.70	11.5	17.8	8	188.5	0	387.5	5,000.00
April	10,470.6	11,135.90	11.5	17.8	7	199.2	0	375.0	5,000.00
May	710.1	710.3	11.5	11.7	0	604.1	0	12.4	5,000.00
June	570.0	570.0	9.4	9.4	8	485.9	0	0	5,000.00
July	479.8	479.8	7.8	7.8	0	422.0	0	0	5,000.00
August	451.4	464.7	7.6	7.6	17	424.0	0	0	5,000.00
September	457.8	445.6	7.4	7.4	0	421.1	0	0	5,000.00
October	230.4	242.9	3	7.7	0	201.2	0	288.3	5,000.00
November	232.0	241.1	3	8.8	0	176.7	0	345.0	5,000.00
December	991.6	993.1	3.3	10.4	0	162.1	0	437.1	5,000.00
Total	21,089.6	21,784.0			72	4,155.3	0.0	2,595.3	FULL

1/ Required flows for January through April are equal to 11.5 cfs. No credits were carried over from previous years.

2/ October through December flow requirements reduced from AN to CD rates per Camp Pendleton's request to forego water.

3/ The Table in Section 5 of the CWRMA sets forth guaranteed monthly flows at the Gorge once the Hydrologic Condition for the calendar year is established.

4/ CAP Credits equal WR-34 discharge in excess of 4,000 AF. CAP Credit of 155 earned in 2020.

5/ Climatic Credits equal the WR-34 discharges less actual Flow Requirements, which is the flow indicated in Section 5 of the CWRMA less applicable credits but not less than 3.0 cfs. No Climatic Credit earned in 2020.

6/ Camp Pendleton's rights to groundwater equal the flow indicated in Section 5 of the CWRMA less the Actual Flow Maintenance Requirement, which cannot be less than 3.0 cfs. Input to the Groundwater Bank shown but cumulative balance did not increase due to account balance maximum of 5,000 AF.

2.5 Climatic Credits

Section 5(b) of CWRMA includes a provision for comparing the winter period Minimum Daily Flow Requirements with the Actual Flow Requirements based on the hydrologic conditions determined on May 1st. For Below Normal and Critically Dry years, if the Minimum Daily Flow Requirement is determined to be greater than the Actual Flow Requirements, the District is entitled to a Climatic Credit for such excess.

Beginning in January of each year, the District provides Make-Up Water to meet the Minimum Daily Flow Requirement of 11.5 cfs (less any applied credits) during the winter period January through April, based upon the 10-day running average. On May 1st, if the hydrologic determination results in a year type of Below Normal or Critically Dry, the Actual Flow Requirement, in retrospect, would be less than 11.5 cfs, as shown in Table 2. The District would be entitled to Climatic Credits for any excess releases in those year types. In Above Normal and Very Wet years, the winter period flow requirements are equal to 11.5 cfs and thus Climatic Credits cannot be earned.

The Climatic Credits are determined on a volumetric basis as the accumulation of the difference of the daily Outlet WR-34 Make-Up Water discharge, less the Actual Daily Flow Requirement, less any applied credits from the prior year. Climatic Credits earned in a particular year are converted to a cfs equivalent and applied during the following winter periods to reduce the 11.5 cfs requirement in accordance with the order of applying credits shown on Table 1.

As shown on Table 4, no Climatic Credits were earned by the District in 2020. A summary of the Climatic Credits earned and applied for the period 2003 to present is included in Appendix B-1.

2.6 CAP Credits

CAP Credits are credits earned by the District when Make-Up Water is in excess of 4,000 acre feet per year as specified in Section 5(e) of CWRMA. Any CAP Credits earned in a particular year are applied during the following two winter periods to reduce the 11.5 cfs requirement. As described in Appendix B-1, a total of 155 AF of CAP Credits were earned by the District in 2020. A summary of the CAP Credits earned and applied for the period 2003 to present is included in Appendix B-1.

2.7 Camp Pendleton Groundwater Bank

Section 17 of CWRMA provides for emergency supplies for Camp Pendleton, including the establishment of rights to the use of groundwater in the basin upstream of the Gorge. Such rights are established by Camp Pendleton foregoing its rights to Make-Up Water, or to the extent that the District's Actual Flow Requirements are less than the flows specified on Table 2. The cumulative balance in the Camp Pendleton Groundwater Bank may not exceed 5,000 acre feet.

Table 4 shows the input or accrual to the Camp Pendleton Groundwater Bank in 2020 as 2,595.3 acre feet earned through determining the difference between actual and required flow requirements during the winter period, as well as foregone water. The groundwater input is shown on Table 4 but is not credited to the account due to the account balance maximum of 5,000 acre feet.

A summary of the Camp Pendleton Groundwater Bank credits earned and used for the period 2003 to present is included in Appendix B-1. The maximum account balance of 5,000 acre feet was reached in 2005, and has been maintained since that time. Camp Pendleton has not used any water from the Camp Pendleton Groundwater Bank to date.

3. Section 5(g) Monitoring Program

Section 5(g) of CWRMA provides for a program to assess the impacts of CWRMA operations on water supply, water quality and riparian habitat within Camp Pendleton. During 2007-08, Camp Pendleton initiated the Section 5(g) program named as the Lower Santa Margarita River Watershed Monitoring Program (Program) to evaluate whether the increased flows under CWRMA impacted threatened and endangered species, riparian and wetland habitats, or water quality downstream. The Program will also support other water quality monitoring and watershed management activities in the Santa Margarita River Watershed. A copy of the Statement of Work for the Lower Santa Margarita River Watershed Monitoring Program was previously published in the 2007 and 2008 Annual Watermaster Reports. The monitoring was funded for a two-year period and the final report, Hydrological and Biological Support to Lower Santa Margarita River Watershed Monitoring Program Water Years 2008 2009, was published on February 21, 2010, by the United States Bureau of Reclamation, Southern California Office, under a cooperative agreement with Camp Pendleton and is available at the following website:

<http://www.usbr.gov/lc/socal/reports/SMMonitoringFinalReport.pdf>

4. Section 7(d) Monitoring Program

Section 7(d) of CWRMA provides for a program to assess safe yield operations of the District for pumping groundwater from the basin upstream of the Gorge through the use of a multi-level groundwater monitoring network and periodic updates of the CWRMA Groundwater Model. In September 2006, the USGS, under contract with Camp Pendleton and the District, constructed a multi-level monitoring well for the Murrieta-Temecula Groundwater Basin in accordance with Section 7(d) of CWRMA. The USGS monitoring program for the Pala Park Groundwater Monitoring Well (TMPP) is included in the ongoing Watermaster budget beginning in year 2007-08. The Pala Park Groundwater Monitoring Well is located near the confluence of Pechanga and Temecula creeks as shown on the CWRMA Location Map and was completed to a total depth of 1,499 feet. Six piezometers were installed for continuous water level recording in the saturated zone for the lower five screened intervals and a temperature probe for the uppermost screened interval to detect moisture in the unsaturated zone. In 2009, water level recording

equipment was added for the upper-most piezometer. The piezometric head for the six piezometers for the Pala Park Groundwater Monitoring Well for the period December 27, 2006 through December 31, 2020, is shown on Figure 1.

In 2009, the groundwater monitoring program was expanded to include the Wolf Valley Groundwater Monitoring Well (TMWV) that was previously constructed under a cooperative agreement between the USGS and the Pechanga Band of Luiseño Mission Indians. The Wolf Valley Groundwater Monitoring Well is located off the Pechanga Indian Reservation as shown on the CWRMA Location Map. Two piezometers are installed at the Wolf Valley Groundwater Monitoring Well. The groundwater level monitoring for the Wolf Valley Groundwater Monitoring Well was previously funded by the Pechanga Band, but is now included in the ongoing Watermaster budget beginning in year 2009-10. The piezometric head for the two piezometers for the Wolf Valley Groundwater Monitoring Well for the period March 5, 1990 through December 31, 2020, is shown on Figure 2.

In 2013, two additional groundwater monitoring wells were constructed by the USGS under contract with the District. The groundwater level monitoring for these additional wells is included in the ongoing Watermaster budget. The two additional wells are shown on the CWRMA Location Map as the Temecula Creek Groundwater Monitoring Well (TMTC) and the VDC Recharge Basin Groundwater Monitoring Well (TMVC). In April 2013, the Temecula Creek Groundwater Monitoring Well was drilled to a depth of 1,720 feet, and was completed with five piezometers. The piezometric head for the five piezometers for the Temecula Creek Groundwater Monitoring Well for the period September 28, 2013 through December 31, 2020, is shown on Figure 3. In August 2013, the VDC Recharge Basin Groundwater Monitoring Well was drilled to a depth of 1,033 feet, and was completed with six piezometers. The piezometric head for the four active piezometers for the VDC Recharge Basin Groundwater Monitoring Well for the period April 24, 2014 through December 31, 2020, is shown on Figure 4.

Information concerning the construction of the Pala Park, Wolf Valley, Temecula Creek, and VDC Recharge Basin groundwater monitoring wells, groundwater levels, and water quality data can be found at the following website:

<http://ca.water.usgs.gov/temecula/>

Information obtained from the website, and supplemental information for the Pala Park Groundwater Monitoring Well, are provided in Appendix C-1. The information for the Wolf Valley Groundwater Monitoring Well is provided in Appendix C-2. Information for the Temecula Creek and VDC Recharge Basin monitoring wells is provided in Appendix C-3 and Appendix C-4, respectively.

Figure 1
Piezometric Head for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
December 27, 2006 through December 31, 2020

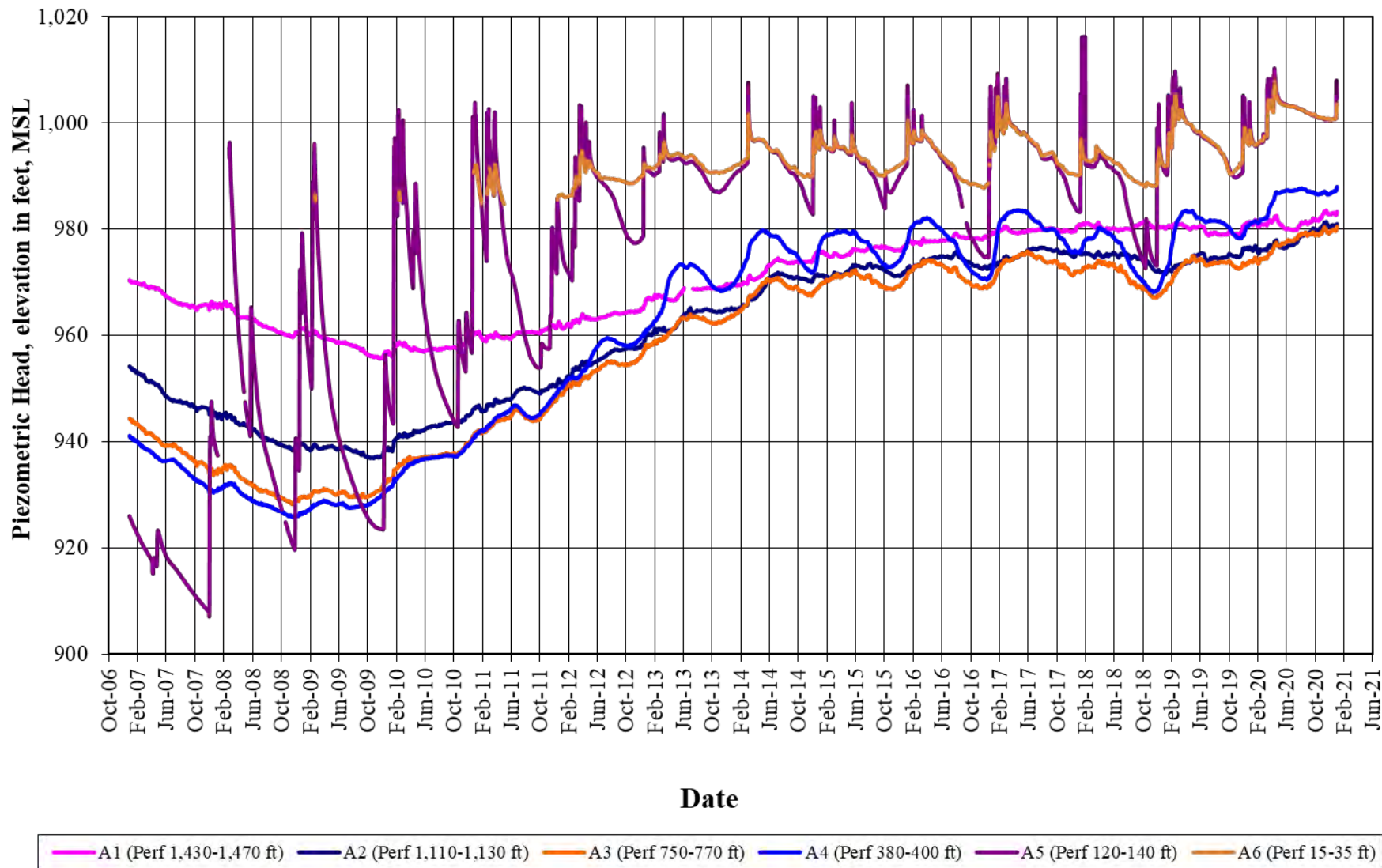


Figure 2
Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)
March 5, 1990 through December 31, 2020

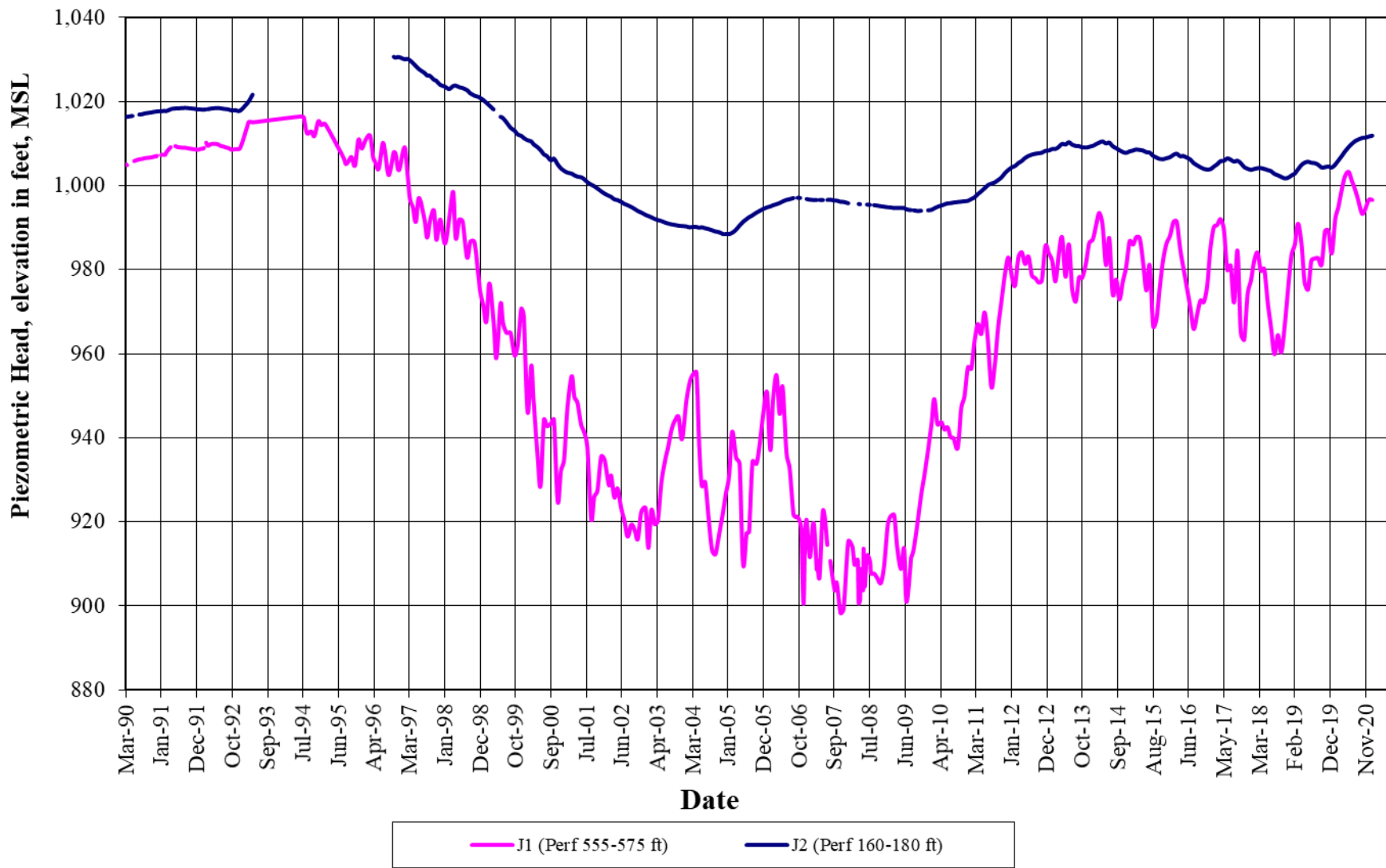


Figure 3
Piezometric Head for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
September 28, 2013 through December 31, 2020

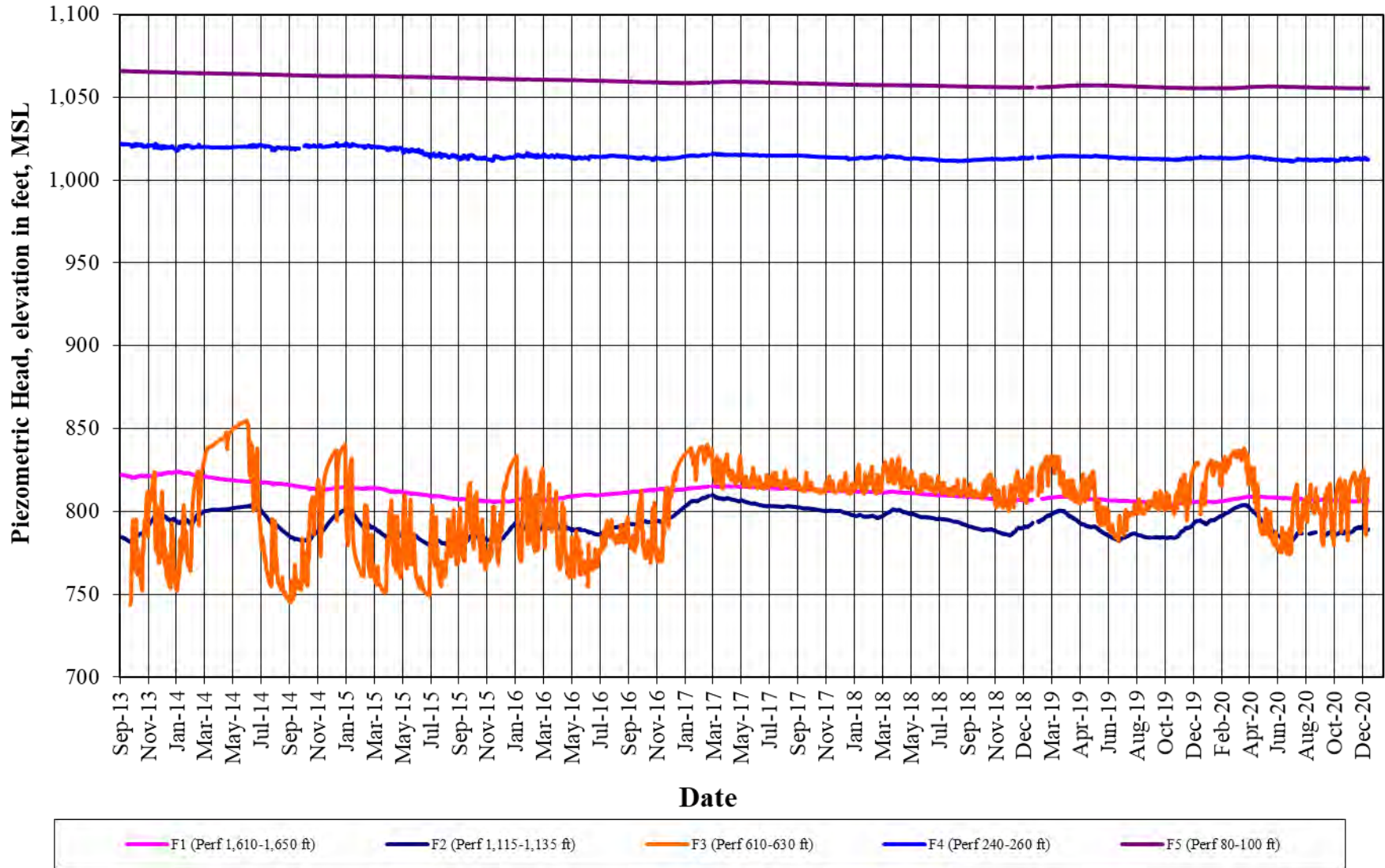
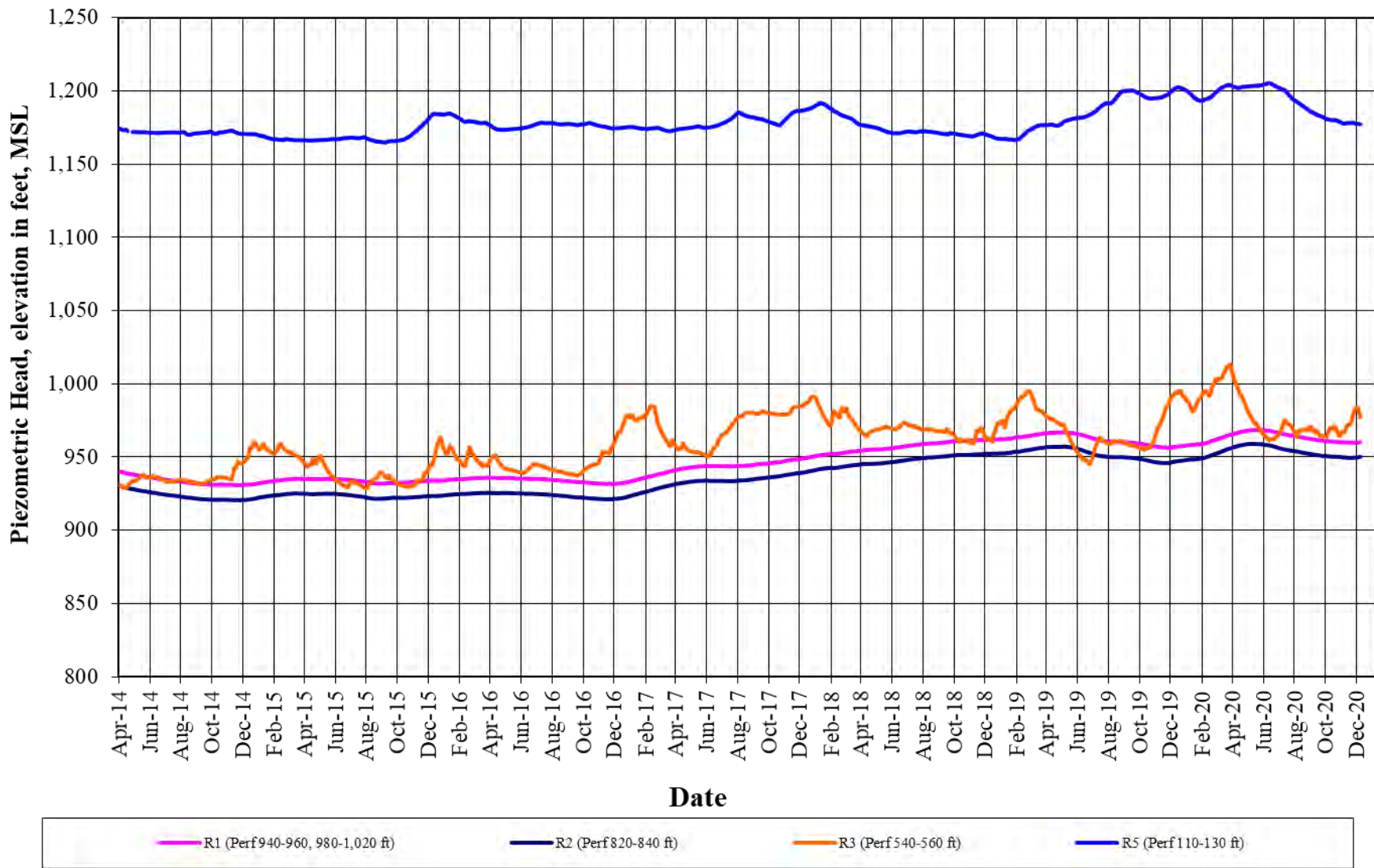


Figure 4
Piezometric Head for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
April 24, 2014 through December 31, 2020



5. Water Quality

5.1 Gorge

Section 10 of CWRMA specifies that the Watermaster shall monitor water quality at the Gorge. The Watermaster budget includes funding for the USGS to continuously monitor four water quality parameters at the Santa Margarita River near Temecula gaging station: dissolved oxygen, pH, specific conductance, and temperature. The annual water quality data are reported in the Annual Watermaster Report and data for the period of record can be accessed at the website:

http://waterdata.usgs.gov/ca/nwis/uv/?site_no=11044000&agency_cd=USGS&

5.2 Monitoring Wells

Groundwater quality data are collected as part of the Section 7(d) Monitoring Program. Data are collected by the USGS with funding through the Watermaster budget. The data can also be accessed at the following website:

<http://ca.water.usgs.gov/temecula/>

Water quality data collected to date for the Pala Park Groundwater Monitoring Well are included in Appendix C-1. Water quality data was collected in one or more of the piezometers between 2006 and 2011. Analyses and piezometers included in the particular annual regimen vary to maximize utility of the annual funding levels. Also included in Appendix C-1 are tri-linear and stable isotope diagrams produced by the USGS.

Water quality data for the Wolf Valley Groundwater Monitoring Well are included in Appendix C-2. The water quality data include samples collected in 1990 and 1993, under the prior cooperative agreement between the USGS and the Pechanga Band. Data for 2009 and 2010 were collected with funding as part of the Watermaster budget. Tri-linear and stable isotope diagrams produced by the USGS are included in Appendix C-2.

Water quality data for the Temecula Creek Groundwater Monitoring Well are included in Appendix C-3. The water quality data include samples collected in 2013 and 2014. The samples collected in 2013 were included as part of construction of the well. Data for 2014 were collected with funding as part of the Watermaster budget. Tri-linear and stable isotope diagrams produced by the USGS are included in Appendix C-3.

Water quality data for the VDC Recharge Basin Groundwater Monitoring Well are included in Appendix C-4. The water quality data include samples collected in 2013 and 2014. The samples collected in 2013 were included as part of construction of the well. Data for 2014 were collected with funding as part of the Watermaster budget. Tri-linear and stable isotope diagrams produced by the USGS are included in Appendix C-4.

5.3 Source Water

In 2010, 2011, and 2012, the water quality monitoring program also included collecting data for the two sources of supply for recharge at the head of Pauba Valley: (1) imported supplies for recharge at the District's groundwater recharge facilities, and (2) native supplies from Temecula Creek as sampled at Vail Lake. Funding from the Watermaster budget was used to collect and analyze the data.

The District operates groundwater recharge facilities at the head of Pauba Valley for the recharge of imported and native water supplies. Water quality data for the District's Upper VDC Recharge Basin Pond No. 5 are provided in Appendix D-1. The water quality data include a sample collected in 2007, as part of a cooperative effort between the USGS and the District. Data for 2010 through 2012 were collected with funding through the Watermaster budget. It is interesting to note the percentage of State Water Project (SWP) water in the imported supplies compared to the percentage of Colorado River water. The percentage of SWP water for the 2007, 2010, 2011, and 2012 samples is estimated as 28, 19, 63, and 51 percent, respectively. Several parameters, including hardness, calcium, sodium, and chloride, show a marked difference in 2011 and 2012, compared to samples collected in 2007 and 2010.

In 2009, the District initiated a water quality sampling program at Vail Lake in part to characterize the water quality for recharge from native supplies at the head of Pauba Valley. It is of interest to characterize the Vail Lake native water prior to the planned future storage of imported supplies in Vail Lake. The water quality sampling locations for Vail Lake and water quality data collected at Vail Lake Station No. 3 for the period September 22, 2009 through May 16, 2017 are provided in Appendix D-2. The Vail Lake sampling program was suspended from June 22, 2013 until October 31, 2015. The sampling event on October 31, 2015 was the only sampling for 2015. Samples are collected at two depths with sample numbering reflecting the sample depths: 3 Vail 1M denotes sampling Station No. 3 at a depth of one meter below water surface and 3 Vail 1MAB denotes sampling Station No. 3 at a depth of one meter above the bottom of the lake. In 2011, water quality sampling from Station No. 3 was added to the program funded by the Watermaster in order to obtain sample analyses comparable to sampling programs for the VDC Recharge Basin Pond No. 5 and the Pala Park and Wolf Valley groundwater monitoring wells. The water quality data collected in 2011 and 2012, by the USGS under the Watermaster program, are also shown in Appendix D-2.

Combined tri-linear and stable isotope diagrams for VDC Pond No. 5 and Vail Lake are repeated in both Appendices D-1 and D-2 with the parameters showing clear differences between the two sources of supply.

5.4 RCWD Production Wells

In 2012, the water quality monitoring program also included collecting data from selected groundwater production wells operated by the District within Pauba Valley as shown on the

CWRMA Location Map. These wells were selected to compliment the water quality data for the monitoring wells and the two sources of supply for recharge at the head of Pauba Valley as described in the preceding section. Previously, groundwater production wells operated by the District were included in the Groundwater Ambient Monitoring and Assessment (GAMA) program implemented by the California State Water Resources Control Board.

Water quality data for the selected production wells are included in Appendix E. Data reported for 2004 and 2007 were collected as part of the GAMA program. Data reported for 2012 were collected with funding from the Watermaster budget. Tri-linear and stable isotope diagrams produced by the USGS are included in Appendix E. The stable isotope diagrams are segregated by wells considered to be completed in the Pauba Aquifer and the Temecula Aquifer.

In 2013, the TAC and Watermaster Steering Committee approved using funding from the Watermaster budget to analyze archived, age-dating samples that were collected during 2012. The samples from two RCWD production wells, Well Nos. 109 and 234, were analyzed in 2014 for tritium and carbon isotopes. The water quality data tabulation for 2012 shown in Appendix E has been updated to include the age-dating results for Well Nos. 109 and 234.

5.5 MWD Aqueduct No. 5 Discharge at Outlet WR-34

In 2012, the District's water quality sampling program was expanded to include sampling at the MWD Aqueduct No. 5 Discharge at Outlet WR-34. The water quality data for Outlet WR-34 for the period May 30, 2012 through December 8, 2020, are included in Appendix F. The data include inorganic, organic, and physical parameters comparable to the data collected at Vail Lake and the RCWD Production Wells.

In addition, the District is monitoring the presence or absence of Quagga mussels at a location in the Santa Margarita River approximately 100 feet downstream of the discharge point for Outlet WR-34. The monitoring utilizes coupon sampling equipment and protocol established under the Rancho California Water District Dreissena Mussel Response and Control Action Plan approved by the California Department of Fish and Wildlife in 2012. To date, there have been no live Quagga mussels detected in the Santa Margarita River.

6. CWRMA Groundwater Model

Section 7 of CWRMA provides for the District to operate the groundwater basin upstream of the Gorge on a safe-yield basis. As indicated above, Section 7(d) of CWRMA specifies that the District and Camp Pendleton will develop and utilize a monitoring program and the CWRMA Groundwater Model to assess safe-yield operations. The CWRMA Groundwater Model was developed by the TAC as part of the negotiations between the District and Camp Pendleton that resulted in the final CWRMA and is jointly owned by the two parties. The CWRMA Groundwater Model was developed over the period 1995 through early 2003, with the final model documentation report prepared on January 31, 2003. The computer code used for the CWRMA Groundwater Model is MODFLOW, which is a three-dimensional finite difference

groundwater flow model developed and maintained by the USGS. The CWRMA Groundwater Model extends throughout the Murrieta-Temecula Groundwater Basin, which is the groundwater basin upstream of the Gorge, and is defined in pertinent interlocutory judgments and exhibits as adjudicated in the Fallbrook Case.

The CWRMA Groundwater Model is used for assessing safe-yield operations pursuant to Section 7(d) and is also used by the District on an ongoing basis as a management tool to assess groundwater pumping impacts and to set annual pumping amounts for managing the groundwater basin. Section 7(d) of CWRMA specifies that the CWRMA Groundwater Model shall be updated periodically, and in no event less frequently than every five years.

Accordingly, in 2007, Camp Pendleton and the District initiated an effort to update the CWRMA Groundwater Model. Work on updating the groundwater model was completed in 2014 and 2015 with publication of the April 25, 2014 (revised January 8, 2015) report prepared by GEOSCIENCE Support Services, Inc., entitled Surface and Ground Water Model of the Murrieta-Temecula Ground Water Basin, California, Model Update and Refinement Report. The model update included the following: (1) development of GSFLOW which is a coupled surface water and groundwater model that includes a Precipitation-Runoff Modeling System (PRMS) and MODFLOW, (2) refinement of the groundwater model cell size, active/inactive boundaries and locations of recharge and discharge, (3) development of a three-dimensional lithologic model based on lithologic and geophysical borehole logs from wells in the area, (4) refinement of groundwater model layer elevations based on the results from the lithologic model, and (5) update of the surface water and groundwater model with data through 2008. The CWRMA Groundwater Model was again updated in 2017. The 2017 updates included: (1) revision of depth of model layer 1 (younger alluvium) by incorporating the agreed upon depth and production from younger alluvium for ten RCWD wells, (2) updated land use and model flux terms (pumping and recharge) from the period 1998 through 2014, and (3) GSFLOW model update and recalibration from 1998 through 2014 against observed water level and streamflow data.

7. Other Items Related to CWRMA

Other items of note for 2020 related to CWRMA include the continued implementation of the State of California groundwater elevation monitoring program for the groundwater basin upstream of the Gorge and the California Sustainable Groundwater Management Act. These items are included in the Annual CWRMA Report for informational purposes.

7.1 CASGEM Program

On November 6, 2009, the Governor for the State of California approved Senate Bill SBX7 6 Groundwater Elevation Monitoring (SBX7 6). SBX7 6 provides for a statewide program of reporting groundwater elevation data for groundwater basins and is implemented by the California Department of Water Resources (DWR). The program is referred to as the California

Statewide Groundwater Elevation Monitoring (CASGEM) Program. The Bill defines “basins” or “sub-basins” to mean a groundwater basin or sub-basin identified and defined in DWR Bulletin No. 118. Three such basins are identified in Bulletin No. 118 for the Santa Margarita River Watershed including Basin Nos. 9-4 (Santa Margarita Valley) located in the Lower Santa Margarita River and 9-5 (Temecula Valley) located in the Murrieta-Temecula Groundwater Basin. Basin No. 9-5 generally corresponds to the groundwater basin upstream of the Gorge as specified in CWRMA and the Murrieta-Temecula Groundwater Basin as defined in the Fallbrook Case.

SBX7 6 establishes a procedure for a Monitoring Entity to coordinate the monitoring activities for a basin and on September 24, 2012, DWR notified the District that Rancho California Water District is designated as the Monitoring Entity for Basin No. 9-5. The District developed the CASGEM monitoring plan for Basin No. 9-5 in consultation with the TAC. Camp Pendleton was accepted as the monitoring entity for Basin 9-4 on October 14, 2015. Camp Pendleton also developed a CASGEM monitoring plan for Basin 9-4. Additional information for the CASGEM program, the approved monitoring plans, and groundwater monitoring data posted for Basin Nos. 9-4 and 9-5 can be found at the following website:

<https://www.water.ca.gov/Programs/Groundwater-Management/Groundwater-Elevation-Monitoring--CASGEM>

7.2 Sustainable Groundwater Management Act

On September 16, 2014, Governor Brown signed the California Sustainable Groundwater Management Act (Act or SGMA) that was established as part of a comprehensive three-bill package that includes AB 1739 (Dickinson), SB 1168 (Pavley), and SB 1319 (Pavley) to provide the framework for statewide groundwater management by local authorities. The state agencies charged with administration of the Act are both the Department of Water Resources (DWR) and the State Water Resources Control Board (SWRCB).

The Act pertains to all groundwater basins identified and defined in DWR Bulletin 118. However, the Act includes an exemption for adjudicated basins as provided in §10720.8(a) that specifically lists the Santa Margarita River Watershed as an exempted adjudicated area. Thus, the three Bulletin 118 basins located within the Watershed are not subject to the general requirements of the Act. However, as specified in §10720.8(f), the Watermaster must comply with certain requirements under the Act, including reporting to DWR annually, on or before April 1.

As part of the annual reporting requirements, the Watermaster submits to DWR copies of the Annual Watermaster Report and the Annual CWRMA Report to provide information for the DWR Bulletin No. 118 basins within the Watershed. In addition, the groundwater monitoring data for the basins under the CASGEM Program fulfills a portion of the reporting requirements specified in §10720.8(f)(3)(A).

ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

APPENDIX A

HYDROLOGIC CONDITION DETERMINATION



FINAL TECHNICAL MEMORANDUM 043020B.1

785 Grand Avenue, Suite 202 • Carlsbad, California • 92008
TEL: (760) 730-0701 FAX: (415) 457-1638 e-mail: mollyp@stetsonengineers.com

TO: CWRMA Technical Advisory Committee DATE: May 29, 2020
FROM: Stetson Engineers JOB NO: 2628-1002
RE: Hydrologic Conditions in the Santa Margarita River Watershed for the 2020 Calendar Year

INTRODUCTION

This technical memorandum outlines the process of calculating the hydrologic index (HI) that describes the current hydrologic condition in the Santa Margarita River watershed and subsequently establishes the required flows at the Gorge. Appendix C of the Cooperative Water Resource Management Agreement (CWRMA) was followed in order to determine the Section 5 flow requirements for the period January 1, 2020 through December 31, 2020.

DATA SOURCES

Two sets of observed data are necessary to calculate the HI. The first set includes October through April monthly precipitation from the Wildomar Precipitation Station (Station #246). This information is available through the Riverside County Flood Control and Water Conservation District, courtesy of:

Mr. Robert Laag
ph. # (951) 955-1232,
email: relaag@rcflood.org

Table 1 shows rainfall at the Wildomar Station for October 2019 through April 2020. Daily rainfall for October 1, 2019 through April 30, 2020 at Wildomar was available from the Riverside County Flood Control and Water Conservation District website at <http://www.floodcontrol.co.riverside.ca.us/data/246.ytd.txt>

The second set of observed data used for the calculation of the HI is the streamflow at Temecula Creek near Aguanga. The pertinent period of record from October 2019 through April 30, 2020, as recorded by USGS gage # 11042400, is shown in Table 2. The raw data are available through the USGS database as average daily streamflow in cubic feet per second (cfs) and are classified as provisional. To perform the HI calculation, streamflow was converted to acre-feet by multiplying the daily values by a conversion factor of 1.983 acre-feet/cfs/day.

TABLE 1. MONTHLY PRECIPITATION AT WILDOMAR [INCHES]

Month	Precipitation (in)
Oct-19	0.00
Nov-19	3.24
Dec-19	3.71
Jan-20	0.26
Feb-20	0.65
Mar-20	5.40
Apr-20	4.35
Water Year Total	17.61

Source: Riverside County Flood Control and Water Conservation District (May 29, 2020).

TABLE 2. DAILY STREAMFLOW AT TEMECULA CREEK NEAR AGUANGA [ACRE-FEET/DAY]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
1	0.0	0.0	0.0	2.0	1.5	1.4	8.3	
2	0.0	0.0	0.0	2.0	1.5	1.4	7.7	
3	0.0	0.0	0.0	1.9	1.4	1.4	7.4	
4	0.0	0.0	0.1	1.8	1.4	1.4	7.1	
5	0.0	0.0	0.1	1.8	1.4	1.4	6.9	
6	0.0	0.0	0.0	1.7	1.4	1.3	9.1	
7	0.0	0.0	0.1	1.8	1.5	1.3	110.5	
8	0.0	0.0	1.0	1.8	1.5	1.3	90.8	
9	0.0	0.0	1.2	1.8	1.6	1.3	79.1	
10	0.0	0.0	1.2	1.8	1.6	5.9	249.9	
11	0.0	0.0	1.1	1.8	1.6	7.9	131.9	
12	0.0	0.0	1.0	1.7	1.5	10.9	67.6	
13	0.0	0.0	0.9	1.7	1.4	15.8	42.4	
14	0.0	0.0	0.9	1.6	1.4	16.6	31.3	
15	0.0	0.0	0.8	1.6	1.4	12.0	24.0	
16	0.0	0.0	0.7	1.6	1.4	9.8	20.6	
17	0.0	0.0	0.7	1.6	1.4	10.6	18.5	
18	0.0	0.0	0.7	1.6	1.4	12.0	16.7	
19	0.0	0.0	0.7	1.6	1.4	12.8	15.4	
20	0.0	0.0	0.7	1.5	1.4	14.0	14.0	
21	0.0	0.0	0.8	1.7	1.4	12.1	13.0	
22	0.0	0.0	0.8	1.8	1.7	10.7	11.8	
23	0.0	0.0	1.0	1.6	2.0	30.0	10.8	
24	0.0	0.0	1.2	1.6	1.8	25.6	10.1	
25	0.0	0.0	1.2	1.5	1.6	18.0	9.4	
26	0.0	0.0	3.3	1.5	1.4	15.1	8.8	
27	0.0	0.0	3.8	1.5	1.3	13.1	7.8	
28	0.0	0.0	2.7	1.5	1.3	11.4	7.1	
29	0.0	0.0	2.3	1.5	1.3	10.3	7.0	
30	0.0	0.0	2.2	1.5		9.4	6.9	
31	0.0		2.1	1.4		8.8		
								TOTAL
Total	0.0	0.0	33.3	51.8	42.9	305.0	1,051.9	1,484.9
Mean	0.0	0.0	1.1	1.7	1.5	9.8	35.1	7.0
Maximum	0.0	0.0	3.8	2.0	2.0	30.0	249.9	249.9
Minimum	0.0	0.0	0.0	1.4	1.3	1.3	6.9	0.0

Source: USGS Station #11042400 (<http://waterdata.usgs.gov/nwis/dv>). Data downloaded 5/29/20. Data from March 11, 2020 through April 30, 2020 are provisional.

DATA ANALYSIS/PROCEDURE

The HI is defined as the sum of October through April natural streamflow at Murrieta, natural streamflow at Vail Lake, and natural streamflow from the Pauba and Wolf Valleys. Depending on the results of the HI, the hydrologic condition in the Santa Margarita River watershed may be categorized as Critically Dry, Below Normal, Above Normal, or Very Wet.

The natural streamflow at Murrieta is calculated using the rainfall/runoff relationship between precipitation at the Wildomar station and natural streamflow at Murrieta, as determined by the Hydrologic Simulation Program Fortran (HSPF) model. The polynomial relationship is described in equation (1), where Y is the average monthly natural streamflow at Murrieta in cfs per day, and X is the monthly precipitation in inches at Wildomar. The natural streamflow at Murrieta is converted to volume, in acre-feet, by multiplying the average monthly streamflow by the number of days per month to get the monthly volume of streamflow, then summing the monthly volumes.

$$Y = 9.068 - 34.798 * X + 11.339 * X^2 \quad (\text{Where } X \geq 2.79 \text{ inches}) \quad (1)$$

$$Y = 0 \quad (\text{Where } X < 2.79 \text{ inches})$$

The natural streamflow at Vail Lake is a function of the observed streamflow from USGS Gage # 11042400, Temecula Creek at Aguanga. Equation (2) describes the relationship, where S is the monthly observed stream flow at Aguanga from October through April, in acre-feet, and V is the monthly natural October through April stream flow at Vail Lake, also in units of acre-feet.

$$V = 1.38 * S \quad (2)$$

Equation (3) describes the estimated contributions from Pauba and Wolf Valleys, where V is the October through April stream flow at Vail Lake (equation (2)), and Z is the Pauba and Wolf Valley October through April contribution in units of acre-feet.

$$Z = 0.5 * V \quad (3)$$

The HI is the sum of the results of Equations (1), (2), and (3): $HI = Y + V + Z$.

RESULTS

The results of the calculations of the hydrologic index for the 2020 calendar year are summarized in Table 3. The HI was computed as 19,837 acre-feet, which falls in the Above Normal category. According to Figure C-1 in the CWRMA, Above Normal hydrologic conditions are defined as years in which the HI is greater than 14,510 acre-feet but less than 47,810 acre-feet. The HI for 2019 was also AN. Per CWRMA Exhibit C, there are no adjustments for antecedent conditions required for cases in which an AN year (2020) follows and AN year (2019). The HI for 2020 is Above Normal.

The guaranteed flows that must be maintained at the Gorge are established based on the general hydrologic condition of the Santa Margarita River Basin and stipulated in Section 5 of the CWRMA. Guaranteed flows are defined as two-thirds of the median natural flows during the period of record (1931-1996), to be maintained by RCWD at the Gorge. The use of the median value of streamflow eliminates the impact of large storm flows from the requirements at the Gorge. The Actual Flow requirements at the Gorge for 2020 for an Above Normal year are listed in Table 4.

**TABLE 3. HYDROLOGIC INDEX CALCULATIONS
CALENDAR YEAR 2020**

Month	[1]	[2]	[3]	[4]	[5]	[6]
	Precipitation at Wildomar [inch]	Natural Flow at Murrieta [Acre-Feet]	Observed Flow at Aguanga [Acre-Feet]	Calculated Flow at Vail Lake [Acre-Feet]	Estimated Contributions from Pauba and Wolf Valleys [Acre-Feet]	Hydrologic Index [Acre-Feet]
Oct 2019	0.00	0.0	0.0	0.0	0.0	0.0
Nov 2019	3.24	913.7	0.0	0.0	0.0	913.7
Dec 2019	3.71	2,215.9	33.3	46.0	23.0	2,284.9
Jan 2020	0.26	0.0	51.8	71.5	35.8	107.3
Feb 2020	0.65	0.0	42.9	59.2	29.6	88.8
Mar 2020	5.40	9,334.1	305.0	420.9	210.5	9,965.5
Apr 2020	4.35	4,299.7	1,051.9	1,451.6	725.8	6,477.1
Totals	17.61	16,763.4	1,484.9	2,049.2	1,024.7	19,837.3
2020 Classification:						AN

- Notes: [1] Precipitation at Wildomar Station #246 from Riverside County Flood Control and Water Conservation District (April 27, 2020).
- [2] If Monthly Precipitation at Wildomar is less than 2.79 inches, the Natural Streamflow at Murrieta is 0 Acre-Feet. Otherwise, Natural Streamflow at Murrieta [Acre-Feet] is $(9.068 - 34.798 * [1] + 11.339 * [1]^2) * (86400 / 43560) * (\text{days in month})$
- [3] The sum of provisional daily values from USGS Station #11042400 Temecula Creek near Aguanga through April 26, 2020. Values for April 27 - 30, 2020 were estimated.
- [4] Flow at Vail Lake Estimated to be $1.38 * [3]$
- [5] Contributions from Pauba and Wolf Valley Estimated to be 50% of Vail Lake Inflow, calculated as $0.5 * [4]$
- [6] $[2] + [4] + [5] = \text{HI}$
- HI Determination**
 $\text{HI} \leq 3,230$ ~ Critically Dry
 $\text{HI} \leq 14,510$ ~ Below Normal
 $\text{HI} \leq 47,810$ ~ Above Normal
 $\text{HI} > 47,810$ ~ Very Wet
- An antecedent correction factor applies to the initial value computed in column [6] under the following conditions:
- If the hydrologic index is initially classified as Above Normal and the previous year was Critically Dry, subtract 10,000 from the initial value.
 - If the hydrologic index is initially classified as Below Normal and the previous year was Above Normal or Very Wet, add 2,200 to the initial value.

TABLE 4. ACTUAL FLOW REQUIREMENT AT THE GORGE FOR CALENDAR YEAR 2020

Above Normal Hydrologic Year

Month	2/3 Natural Flow at the Gorge ^[1] [cfs]	Actual Flow Requirement at the Gorge [cfs]
Jan-Apr	17.8	11.5
May	11.7	11.5
June	9.4	9.4
July	7.8	7.8
August	7.6	7.6
September	7.4	7.4
October	7.7	7.7
November	8.8	8.8
December	10.4	10.4

^[1] 2/3 Natural flow at the Gorge is based on the median flow during Above Normal conditions from 1931 through 1996.

ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

APPENDIX B-1

**May 13, 2021 MEMORANDUM FROM
STETSON ENGINEERS, INC.**



FINAL TECHNICAL MEMORANDUM 020231.1

785 Grand Avenue, Suite 202 • Carlsbad, California • 92008
TEL: (760) 730-0701 FAX: (415) 457-1638 e-mail: mollyp@stetsonengineers.com

TO: CWRMA Technical Advisory Committee DATE: May 13, 2021
FROM: Stetson Engineers JOB NO: 2628-0002
RE: Summary of Climatic, CAP, and Groundwater Bank Credits as of December 31, 2020

The purpose of this memorandum is to provide an update to flows and credits stipulated under the Cooperative Water Resource Management Agreement (CWRMA) as of December 31, 2020. Mr. Rich Ottolini on behalf of Rancho California Water District (District) provided Stetson Engineers with an updated “Tracking Model” on February 3, 2021. Table 1 summarizes the 2003 through 2020 Hydrologic Conditions, Climatic Credits, CAP Credits, and Groundwater Bank Credits either earned or used by the two parties.

Through December 31, 2020, the District earned 0 AF of Climatic Credit due to the Above Normal conditions. The District earned 155 AF of CAP credit in 2020, which may be applied to the next two winter periods. The equivalent winter-time flow rate for the CAP Credit is 0.65 cfs. The CWRMA provides for the determination of the next winter’s flow requirement and the application of credits in the section that states:

“In all years following the first winter period... the Minimum Daily Flow Requirement for each winter period shall be 11.5 cfs, less any credit unused in a previous year, and less any credit established by the May 1st accounting of the prior year” [§5(e)].

The CAP Credit to be applied for winter 2021 is 50% of the CAP Credit earned in 2020, or 0.3 cfs. No climatic credits were earned in 2020. The Minimum Daily Flow Requirement at the Gorge during the 2020 winter period is 11.2 cfs (11.5 cfs minus 0.3 cfs). Consistent with previous years, the Minimum Daily Flow Requirement may be adjusted in the future to account for any necessary operational changes that are agreed to by both parties.

The total releases by the District to meet the Actual Flow Requirement in 2020 were 4,155 AF. In the May 29, 2020 memorandum from Stetson Engineers to the Technical Advisory Committee, the Hydrologic Condition for 2020 was determined to be Above Normal. Camp Pendleton earned 2,595 AF of Groundwater Bank Credit due to maximum flow requirements stipulated in the CWRMA, but did not accrue those credits because the Groundwater Bank balance was already at its maximum value of 5,000 AF at the start of 2020. The streamflow measured at the Gorge was 21,090 AF during the 2020 calendar year. During this period, total releases by the District accounted for 20% of the total flow measured at the Gorge during the Above Normal Hydrologic Conditions of 2020. Figure 1 is a hydrograph of the daily flow measured by the USGS at the Gorge (Station 11044000).

**TABLE 1. SUMMARY OF CLIMATIC, CAP, AND GROUNDWATER BANK CREDITS
2003 THROUGH 2020**

Credit	Calendar Year											
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		
Hydrologic Condition	Above Normal	Critically Dry	Very Wet	Below Normal	Critically Dry	Above Normal	Above Normal	Very Wet	Very Wet	Critically Dry		
Previous Year's Climatic Credit (AF)	0	0	678	0	477	1,212	0	0	0	0		
Climatic Credit Used (AF)	0	0	678	0	477	1,212	0	0	0	0		
Climatic Credit Earned (AF)	0	678	0	477	1,212	0	0	0	0	1,248		
Climatic Credits Remaining (AF)	0	678	0	477	1,212	0	0	0	0	1,248		
Previous Year's CAP Credit (AF)	0	1,485	483	397	206	0	432	1,011	397	296		
CAP Credit Used (AF)	0	1,002	483	191	206	0	216	614	397	148		
CAP Credit Earned (AF)	1,485	0	397	0	0	432	795	0	296	0		
CAP Credits Remaining (AF)	1,485	483	397	206	0	432	1,011	397	296	148		
Previous Year's												
Groundwater Bank Credit (AF)	0	2,096	2,456	5,000	5,000	5,000	5,000	5,000	5,000	5,000		
Groundwater Bank Credit Used (AF)	0	0	0	0	0	0	0	0	0	0		
Groundwater Bank Credit Earned (AF)	2,096	360	2,544	0	0	2,087	3,092	5,372	5,275	148		
Groundwater Bank Credit Remaining (AF)	2,096	2,456	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000		
Minimum Required Winter Flow at the Gorge ¹ (cfs)	11.5	8.4/7.1	6.6	10.7	8.6	6.4	10.6	8.9	9.8	10.9		

¹ Required flow converted to a cfs equivalent for a winter period of 120 days. In 2004, from January 1-22, 50% CAP Credit was applied and for the remainder of the winter period 70% of CAP Credit was applied.

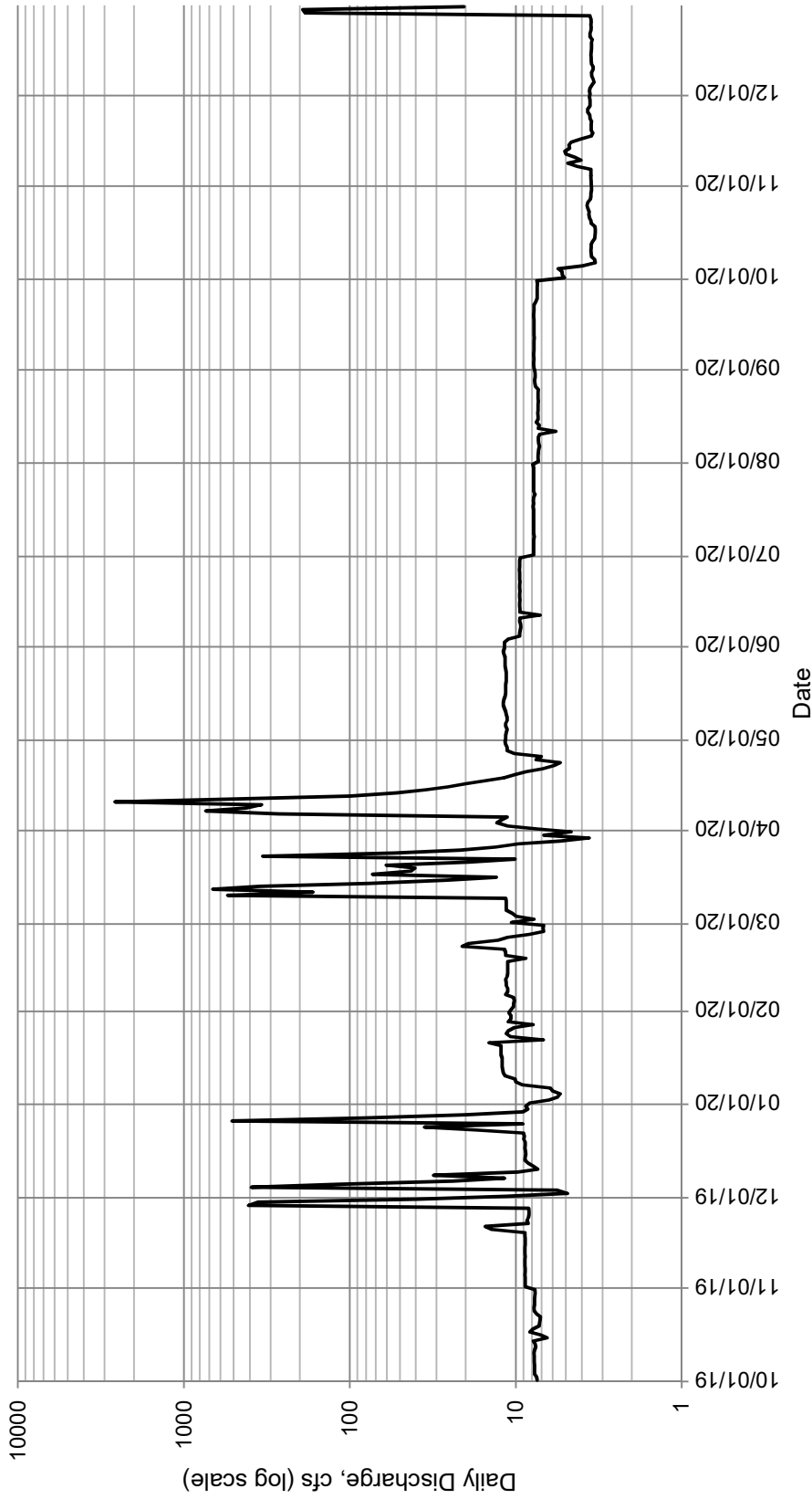
(TABLE CONTINUED ON NEXT PAGE)

**TABLE 1. SUMMARY OF CLIMATIC, CAP, AND GROUNDWATER BANK CREDITS
2003 THROUGH 2020 (CONTINUED FROM PREVIOUS PAGE)**

Credit	Calendar Year									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Hydrologic Condition	Critically Dry	Below Normal	Below Normal	Below Normal	Above Normal	Critically Dry	Above Normal	Above Normal	Above Normal	TBD
Previous Year's Climatic Credit (AF)	1,248	406	749	563	623	0	1,107	0	0	0
Climatic Credit Used (AF)	1,248	406	749	563	623	0	1,107	0	0	0
Climatic Credit Earned (AF)	406	749	563	623	0	1,107	0	0	0	n/a
Climatic Credits Remaining (AF)	406	749	563	623	0	1,107	0	0	0	n/a
Previous Year's CAP Credit (AF)	148	0	9	4.5	0	1,069	0	0	0	155
CAP Credit Used (AF)	148	0	4.5	4.5	0	535	534	0	0	78
CAP Credit Earned (AF)	0	9	0	0	1,069	0	0	0	0	155
CAP Credits Remaining (AF)	0	4.5	4.5	0	1,069	534	0	0	0	155
Previous Year's										
Groundwater Bank Credit (AF)	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Groundwater Bank Credit Used (AF)	0	0	0	0	0	0	0	0	0	n/a
Groundwater Bank Credit Earned (AF)	360	622	756	569	1,944	360	1,756	2,595	2,595	n/a
Groundwater Bank Credit Remaining (AF)	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	n/a
Minimum Required Winter Flow at the Gorge ¹ (cfs)	5.6	9.8	8.3	9.1	8.9	9.3	4.6	11.5	11.2	

¹ Required flow converted to a cfs equivalent for a winter period of 120 days.

Figure 1
Daily Discharge at the Gorge
USGS Gage 11044000 - Santa Margarita River near Temecula
October 2019 - December 2020



Notes:
 All values shown are from USGS gage 11044000 and are approved, published values.
 CWRMA releases were made to meet flow requirements as measured using the provisional USGS daily website discharge; subsequent rating shifts or adjustments at the gage may increase or decrease the published values when compared to the provisional ones. Daily published and provisional values are given in the Annual Watermaster Report Appendix E.

CREDITS, FOREGONE WATER, AND RELEASE SOURCES

Due to Above Normal Hydrologic Conditions, the District did not earn Climatic Credit in 2020. District releases exceeded 4,000 AF, so a new CAP Credit of 155 AF was earned in 2020. No CAP Credit was carried over from previous years.

Camp Pendleton earned input to the Groundwater Bank in 2020, but the balance did not increase since the bank was at its maximum value of 5,000 AF at the beginning of the year. If Camp Pendleton's Groundwater Bank had not already been at the maximum allowable storage volume, 2,595 AF would have been credited to the Groundwater Bank due to the District's Actual Flow Maintenance Requirements being less than the flows in accordance with the Section 5 Flow Requirement (see CWRMA Art. 17).

In September 2020, Camp Pendleton requested that the October through December 2020 release rates be reduced to Critically Dry release rates to minimize CAP Credits. The District agreed and reduced release rates to 3.0 cfs in October, 3.0 cfs in November, and 3.3 fs in December. Camp Pendleton's request to forego water resulted in 1,071 AF of foregone water for the months of October through December 2020.

In 2020, the District released 4,155 AF to meet the Actual Flow Maintenance Requirement. The District released all water from the MWD raw water source at WR-34.

OPERATIONS

There were 72 days during 2020 when the Section 5 Flow Requirement was not met. In the tracking model, violation days are determined by calculating a 10-day running average of the provisional USGS daily website discharge at the Gorge. Each time the flow requirement changes, e.g. on January 1, May 1, June 1, etc., the running average resets and flow violation days are not assessed until the tenth day following the change. A violation day occurs when the 10-day running average flow rate is less than the flow requirement.

Based on review of the release data, recorded flow at the Gorge, and the Minimum Daily Flow Requirement, a shortage of 12 AF occurred due to operational inefficiency. A shortage occurs when releases at the Gorge are less than required under CWRMA based on the 10-day running average. In previous years, operational inefficiency has ranged from a shortage of -73 AF to an excess release of 220 AF.

SUMMARY

Table 2 quantifies the monthly flow releases at the Gorge, credits earned, and credits applied from 2003 through 2020. Both monthly and daily summaries of CWRMA accounting of flows and credits are given in the attached tables intended for use in the Annual Watermaster Report (Table 11.1 and Appendix E).

In 2020, Camp Pendleton maintained the maximum amount of water available in its Groundwater Bank; the District accumulated a new CAP Credit of 155 AF in 2020 and carried over no credits from previous years. Based on this, the 2021 winter-time flow requirement was determined to be 11.2 cfs. The Hydrologic Condition for 2021 will be established on May 1, 2021 following this winter's rainfall events. The hydrologic determination and the amount of water released will establish the Minimum Daily Flow Requirements for May through December and credits earned.

\\Jobs\2628\0002-CWRMA\Memos\2019\TAC Status of CWRMA Flows 2020 v01.1.docx

**Table 2.
Monthly Credit Accounting, Calendar Year 2003 through 2020**

(1) Month	(2) Hydrologic Index [type]	(3) Table 5 Flow Requirement [cfs]	(4) Section 5 Flow Requirement [cfs]	(5) Climatic Credit Applied [cfs]	(6) CAP Credit Applied [cfs]	(7) Augmentation at WR-34 [AF]	(8) Climatic Credit Earned [AF]	(9) CAP Credit Earned [AF]	(10) Operations Data [AF]	(11) Section 5 Flow Violation [# of days]	(12) Groundwater Bank Input [AF]	(13) Foregone Make-Up Water [AF]	(14) Emergency Flows [AF]
Winter 2003	AN	17.8	11.5	-	-	2,005.4	0.0		240	0	1,499.5	0.0	0.0
May-03	AN	11.7	11.5			564.8			53	0	12.3	0.0	0.0
Jun-03	AN	9.4	9.4			513.4			34	1	0.0	0.0	0.0
Jul-03	AN	7.8	7.8			498.7			53	0	0.0	0.0	0.0
Aug-03	AN	7.6	7.6			485.0			6	0	0.0	0.0	0.0
Sep-03	AN	7.4	7.4			454.9			25	0	0.0	0.0	0.0
Oct-03	AN	7.7	7.7			465.6			24	0	15.1	15.1	0.0
Nov-03	AN	8.8	8.8			226.2			10	1	255.9	255.9	0.0
Dec-03	AN	10.4	10.4			270.6			-2	0	313.6	313.6	0.0
Calendar Year 2003						5,484.5	0.0	1,484.5	443	2	2,096.3	584.5	0.0
Winter 2004	CD	4.5	7.3	0.0	4.2	1,299.4	677.7		32	11	360.0	0.0	0.0
May-04	CD	3.8	3.8			205.6			2	0	0.0	0.0	0.0
Jun-04	CD	3.3	3.3			154.5			6	1	0.0	0.0	0.0
Jul-04	CD	3.0	3.0			166.7			4	0	0.0	0.0	0.0
Aug-04	CD	3.0	3.0			184.0			1	0	0.0	0.0	0.0
Sep-04	CD	3.0	3.0			177.4			1	0	0.0	0.0	0.0
Oct-04	CD	3.0	3.0			111.2			10	0	0.0	0.0	0.0
Nov-04	CD	3.0	3.0			103.0			4	0	0.0	0.0	0.0
Dec-04	CD	3.3	3.3			122.8			6	0	0.0	0.0	0.0
Calendar Year 2004						2,524.6	677.7	0.0	66	12	360.0	0.0	0.0
Winter 2005	VW	24.1	6.62	2.8	2.0	24.0	0.0		-23	5	2,543.7	0.0	0.0
May-05	VW	15.7	11.50			583.8			-1	1	0.0	0.0	0.0
Jun-05	VW	12.2	11.50			666.8			34	1	0.0	0.0	0.0
Jul-05	VW	9.7	9.70			601.9			55	0	0.0	0.0	0.0
Aug-05	VW	9.2	9.20			554.6			6	0	0.0	0.0	0.0
Sep-05	VW	9.4	9.40			543.4			5	0	0.0	0.0	0.0
Oct-05	VW	10.1	10.10			550.7			26	0	0.0	0.0	0.0
Nov-05	VW	11.5	11.50			509.5			-10	3	0.0	111.1	0.0
Dec-05	VW	13.5	11.50			362.2			2	0	0.0	381.2	0.0
Calendar Year 2005						4,396.9	0.0	396.9	94	10	2,543.7	492.3	0.0

**Table 2. (continued)
Monthly Credit Accounting, Calendar Year 2003 through 2020**

(1) Month	(2) Hydrologic Index [type]	(3) Table 5 Flow Requirement [cfs]	(4) Section 5 Flow Requirement [cfs]	(5) Climatic Credit Applied [cfs]	(6) CAP Credit Applied [cfs]	(7) Augmentation at WR-34 [AF]	(8) Climatic Credit Earned [AF]	(9) CAP Credit Earned [AF]	(10) Operations Data [AF]	(11) Section 5 Flow Violation [# of days]	(12) Groundwater Bank Input [AF]	(13) Foregone Make-Up Water [AF]	(14) Emergency Flows [AF]
Winter 2006	BN	8.0	10.7	0.0	0.8	1,990.9	476.5		180	18	0.0	0.0	0.0
May-06	BN	5.7	5.7			320.6			7	0	0.0	0.0	0.0
Jun-06	BN	4.9	4.9			274.9			2	0	0.0	0.0	0.0
Jul-06	BN	4.3	4.3			260.5			2	0	0.0	0.0	0.0
Aug-06	BN	4.4	4.4			256.0			6	0	0.0	0.0	0.0
Sep-06	BN	4.1	4.1			241.1			1	0	0.0	0.0	0.0
Oct-06	BN	3.9	3.9			232.7			5	0	0.0	0.0	0.0
Nov-06	BN	4.5	4.5			235.5			3	1	0.0	0.0	0.0
Dec-06	BN	5.3	5.3			185.0			15	0	0.0	111.1	0.0
Calendar Year 2006						3,997.2	476.5	0.0	220	19	0.0	111.1	0.0
Winter 2007	CD	4.5	8.6	2.0	0.9	1,882.9	1,212.3		-8	24	0.0	0.0	0.0
May-07	CD	3.8	3.8			249.0			2	0	0.0	0.0	0.0
Jun-07	CD	3.3	3.3			159.4			2	0	0.0	0.0	0.0
Jul-07	CD	3.0	3.0			218.6			2	0	0.0	0.0	0.0
Aug-07	CD	3.0	3.0			208.5			2	0	0.0	0.0	0.0
Sep-07	CD	3.0	3.0			203.6			1	0	0.0	0.0	0.0
Oct-07	CD	3.0	3.0			207.5			1	0	0.0	0.0	0.0
Nov-07	CD	3.0	3.0			196.4			4	0	0.0	0.0	0.0
Dec-07	CD	3.3	3.3			153.8			6	0	0.0	0.0	0.0
Calendar Year 2007						3,479.7	1,212.3	0.0	11	24	0.0	0.0	0.0
Winter 2008	AN	17.8	6.4	5.1	0.0	999.0	0.0		55	0	1,512.0	0.0	0.0
May-08	AN	11.7	11.5			494.2			-93	0	12.3	0.0	0.0
Jun-08	AN	9.4	9.4			532.4			14	0	0.0	0.0	0.0
Jul-08	AN	7.8	7.8			473.6			15	0	0.0	0.0	0.0
Aug-08	AN	7.6	7.6			480.2			12	0	0.0	0.0	0.0
Sep-08	AN	7.4	7.4			456.5			8	0	0.0	0.0	0.0
Oct-08	AN	7.7	7.7			481.3			6	1	0.0	0.0	0.0
Nov-08	AN	8.8	8.8			407.4			1	1	126.0	0.0	0.0
Dec-08	AN	10.4	10.4			107.0			10	0	436.6	436.6	0.0
Calendar Year 2008						4,431.7	0.0	431.7	28	2	2,087.4	563.1	0.0

**Table 2. (continued)
Monthly Credit Accounting, Calendar Year 2003 through 2020**

(1) Month	(2) Hydrologic Index [type]	(3) Table 5 Flow Requirement [cfs]	(4) Section 5 Flow Requirement [cfs]	(5) Climatic Credit Applied [cfs]	(6) CAP Credit Applied [cfs]	(7) Augmentation at WR-34 [AF]	(8) Climatic Credit Earned [AF]	(9) CAP Credit Earned [AF]	(10) Operations Data [AF]	(11) Section 5 Flow Violation [# of days]	(12) Groundwater Bank Input [AF]	(13) Foregone Make-Up Water [AF]	(14) Emergency Flows [AF]
Winter 2009	AN	17.8	10.6	0.0	0.9	2,145.5	0.0		51	0	1,499.5	0.0	0.0
May-09	AN	11.7	11.5			227.8			17	0	12.3	0.0	0.0
Jun-09	AN	9.4	9.4			709.1			2	0	0.0	0.0	0.0
Jul-09	AN	7.8	7.8			746.0			1	0	0.0	0.0	0.0
Aug-09	AN	7.6	7.6			254.0			7	0	248.1	248.1	0.0
Sep-09	AN	7.4	7.4			186.7			0	0	261.8	261.8	0.0
Oct-09	AN	7.7	7.7			202.6			0	0	289.0	289.0	0.0
Nov-09	AN	8.8	8.8			189.3			0	0	345.1	345.1	0.0
Dec-09	AN	10.4	10.4			133.7			1	0	436.6	436.6	0.0
Calendar Year 2009						4,794.6	0.0	794.6	79	0	3,092.4	1,580.6	0.0
Winter 2010	VW	24.1	8.9	0.0	2.6	1,201.9	0.0		-59	0	2,999.0	0.0	0.0
May-10	VW	15.7	11.5			417.0			20	0	258.2	0.0	0.0
Jun-10	VW	12.2	11.5			667.9			2	0	41.7	0.0	0.0
Jul-10	VW	9.7	9.7			488.7			7	0	160.7	160.7	0.0
Aug-10	VW	9.2	9.2			290.3			0	0	295.1	295.1	0.0
Sep-10	VW	9.4	9.4			278.7			0	0	315.4	315.4	0.0
Oct-10	VW	10.1	10.1			243.0			4	0	381.2	381.2	0.0
Nov-10	VW	11.5	11.5			195.7			-53	0	416.5	416.5	0.0
Dec-10	VW	13.5	11.5			191.0			4	0	504.2	504.2	0.0
Calendar Year 2010						3,974.2	0.0	0.0	-73	0	5,372.0	2,073.1	0.0
Winter 2011	VW	24.1	9.8	0.0	1.7	1,115.9	0.0		26	0	2,999.0	0.0	0.0
May-11	VW	15.7	11.5			652.1			1	0	258.2	0.0	0.0
Jun-11	VW	12.2	11.5			688.4			0	0	41.7	0.0	0.0
Jul-11	VW	9.7	9.7			607.5			22	0	64.3	64.3	0.0
Aug-11	VW	9.2	9.2			277.9			6	0	295.0	295.1	0.0
Sep-11	VW	9.4	9.4			318.8			25	0	315.4	315.4	0.0
Oct-11	VW	10.1	10.1			243.6			12	0	381.2	381.2	0.0
Nov-11	VW	11.5	11.5			142.3			-42	0	416.5	416.5	0.0
Dec-11	VW	13.5	11.5			249.1			7	0	504.2	504.2	0.0
Calendar Year 2011						4,295.6	0.0	295.6	57	0	5,275.5	1,976.0	0.0

**Table 2. (continued)
Monthly Credit Accounting, Calendar Year 2003 through 2020**

(1) Month	(2) Hydrologic Index [type]	(3) Table 5 Flow Requirement [cfs]	(4) Section 5 Flow Requirement [cfs]	(5) Climatic Credit Applied [cfs]	(6) CAP Credit Applied [cfs]	(7) Augmentation at WR-34 [AF]	(8) Climatic Credit Earned [AF]	(9) CAP Credit Earned [AF]	(10) Operations Data [AF]	(11) Section 5 Flow Violation [# of days]	(12) Groundwater Bank Input [AF]	(13) Foregone Make-Up Water [AF]	(14) Emergency Flows [AF]
Winter 2012	CD	4.5	10.9	0.0	0.6	1,848.0	1,247.8		115	0	147.8	0.0	0.0
May-12	CD	3.8	3.8			285.2			2	0	0.0	0.0	0.0
Jun-12	CD	3.3	3.3			314.4			0	0	0.0	0.0	0.0
Jul-12	CD	3.0	3.0			178.0			6	0	0.0	0.0	0.0
Aug-12	CD	3.0	3.0			179.1			1	0	0.0	0.0	0.0
Sep-12	CD	3.0	3.0			180.6			0	0	0.0	0.0	0.0
Oct-12	CD	3.0	3.0			178.1			5	0	0.0	0.0	0.0
Nov-12	CD	3.0	3.0			163.6			1	0	0.0	0.0	0.0
Dec-12	CD	3.3	3.3			107.3			-2	0	0.0	0.0	0.0
Calendar Year 2012						3,434.3	1,247.8	0.0	128	0	147.8	0.0	0.0
Winter 2013	CD	4.5	5.6	5.2	0.6	1,083.6	406.1		20.4	0	360.0	0.0	0.0
May-13	CD	3.8	3.8			220.7			0.6	0	0.0	0.0	0.0
Jun-13	CD	3.3	3.3			186.3			1.0	0	0.0	0.0	0.0
Jul-13	CD	3.0	3.0			167.7			1.6	0	0.0	0.0	0.0
Aug-13	CD	3.0	3.0			184.9			0.6	0	0.0	0.0	0.0
Sep-13	CD	3.0	3.0			185.5			0.8	0	0.0	0.0	0.0
Oct-13	CD	3.0	3.0			161.3			0.1	0	0.0	0.0	0.0
Nov-13	CD	3.0	3.0			170.5			0.8	0	0.0	0.0	0.0
Dec-13	CD	3.3	3.3			201.2			0.4	0	0.0	0.0	0.0
Calendar Year 2013						2,561.7	406.1	0.0	26.3	0	360.0	0.0	0.0
Winter 2014	BN	8.0	9.8	1.7	0.0	2,186.4	749.2		5.3	0	408.0	0.0	0.0
May-14	BN	5.7	5.7			336.0			0.4	0	0.0	0.0	0.0
Jun-14	BN	4.9	4.9			270.7			0.0	0	0.0	0.0	0.0
Jul-14	BN	4.3	4.3			248.1			0.2	0	0.0	0.0	0.0
Aug-14	BN	4.4	4.4			252.3			1.6	0	0.0	0.0	0.0
Sep-14	BN	4.1	4.1			224.9			-0.4	0	0.0	0.0	0.0
Oct-14	BN	3.9	3.9			216.5			0.0	0	0.0	0.0	0.0
Nov-14	BN	4.5	3.0			164.4			0.0	0	90.0	0.0	0.0
Dec-14	BN	5.3	3.3			109.5			8.9	0	124.0	0.0	0.0
Calendar Year 2014						4,008.8	749.2	8.8	16.0	0	622.0	0.0	0.0

**Table 2. (continued)
Monthly Credit Accounting, Calendar Year 2003 through 2020**

(1) Month	(2) Hydrologic Index [type]	(3) Table 5 Flow Requirement [cfs]	(4) Section 5 Flow Requirement [cfs]	(5) Climatic Credit Applied [cfs]	(6) CAP Credit Applied [cfs]	(7) Augmentation at WR-34 [AF]	(8) Climatic Credit Earned [AF]	(9) CAP Credit Earned [AF]	(10) Operations Data [AF]	(11) Section 5 Flow Violation [# of days]	(12) Groundwater Bank Input [AF]	(13) Foregone Make-Up Water [AF]	(14) Emergency Flows [AF]
Winter 2015	BN	8.0	8.3	3.1	0.02	1,661.3	562.7		2.0	0	756.0	0.0	0.0
May-15	BN	5.7	5.7			286.0			8.0	0	0.0	0.0	0.0
Jun-15	BN	4.9	4.9			282.5			8.8	0	0.0	0.0	0.0
Jul-15	BN	4.3	4.3			215.8			6.0	0	0.0	0.0	0.0
Aug-15	BN	4.4	4.4			252.3			0.2	0	0.0	0.0	0.0
Sep-15	BN	4.1	4.1			217.6			5.8	0	0.0	0.0	0.0
Oct-15	BN	3.9	3.9			233.0			3.5	0	0.0	0.0	0.0
Nov-15	BN	4.5	4.5			257.3			0.2	0	0.0	0.0	0.0
Dec-15	BN	5.3	5.3			330.6			-0.2	0	0.0	0.0	0.0
Calendar Year 2015						3,736.4	562.7	0.0	34.3	0	756.0	0.0	0.0
Winter 2016	BN	8.0	9.1	2.3	0.04	1,897.5	623.3		24.2	0	568.7	0.0	0.0
May-16	BN	5.7	5.7			333.7			0.4	0	0.0	0.0	0.0
Jun-16	BN	4.9	4.9			285.7			0.0	0	0.0	0.0	0.0
Jul-16	BN	4.3	4.3			264.0			0.0	0	0.0	0.0	0.0
Aug-16	BN	4.4	4.4			255.4			1.8	0	0.0	0.0	0.0
Sep-16	BN	4.1	4.1			232.2			0.2	0	0.0	0.0	0.0
Oct-16	BN	3.9	3.9			222.0			0.0	0	0.0	0.0	0.0
Nov-16	BN	4.5	4.5			233.1			3.4	0	0.0	0.0	0.0
Dec-16	BN	5.3	5.3			182.1			-11.5	0	0.0	0.0	0.0
Calendar Year 2016						3,905.7	623.3	0.0	18.5	0	568.7	0.0	0.0
Winter 2017	AN	17.8	8.9	2.6	0.00	1,369.2	0.0		61.7	0	1,500.0	0.0	0.0
May-17	AN	11.7	11.5			650.1			1.9	6	12.4	0.0	0.0
Jun-17	AN	9.4	9.4			521.6			0.1	3	0.0	0.0	0.0
Jul-17	AN	7.8	7.8			464.8			0.0	0	0.0	0.0	0.0
Aug-17	AN	7.6	7.6			451.3			8.8	0	0.0	0.0	0.0
Sep-17	AN	7.4	7.4			433.6			0.5	0	0.0	0.0	0.0
Oct-17	AN	7.7	7.7			476.7			-0.9	9	0.0	0.0	0.0
Nov-17	AN	8.8	4.5			393.0			-5.6	6	119.0	119.0	0.0
Dec-17	AN	10.4	5.3			308.9			-24.9	19	313.1	313.1	0.0
Calendar Year 2017						5,069.2	0.0	1,069.2	41.6	43	1,944.5	432.1	0.0

**Table 2. (continued)
Monthly Credit Accounting, Calendar Year 2003 through 2020**

(1) Month	(2) Hydrologic Index [type]	(3) Table 5 Flow Requirement [cfs]	(4) Section 5 Flow Requirement [cfs]	(5) Climatic Credit Applied [cfs]	(6) CAP Credit Applied [cfs]	(7) Augmentation at WR-34 [AF]	(8) Climatic Credit Earned [AF]	(9) CAP Credit Earned [AF]	(10) Operations Data [AF]	(11) Section 5 Flow Violation [# of days]	(12) Groundwater Bank Input [AF]	(13) Foregone Make-Up Water [AF]	(14) Emergency Flows [AF]
Winter 2018	CD	4.5	9.3	0.0	0.00	1,791.7	1,106.6		-0.7	9	360.0	0.0	0.0
May-18	CD	3.8	3.8			166.6			10.2	9	0.0	0.0	0.0
Jun-18	CD	3.3	3.3			159.5			5.7	4	0.0	0.0	0.0
Jul-18	CD	3.0	3.0			165.6			20.5	0	0.0	0.0	0.0
Aug-18	CD	3.0	3.0			174.1			9.4	0	0.0	0.0	0.0
Sep-18	CD	3.0	3.0			152.3			6.1	1	0.0	0.0	0.0
Oct-18	CD	3.0	3.0			159.6			10.4	3	0.0	0.0	0.0
Nov-18	CD	3.0	3.0			166.5			11.3	0	0.0	0.0	0.0
Dec-18	CD	3.3	3.3			130.3			8.6	0	0.0	0.0	0.0
Calendar Year 2018						3,066.2	1,106.6	0.0	81.5	26	360.0	0.0	0.0
Winter 2019	AN	17.8	4.6	4.6	2.25	332.7	0.0		-39.0	17	1,644.0	0.0	0.0
May-19	AN	11.7	11.5			474.6			-58.4	18	12.4	0.0	0.0
Jun-19	AN	9.4	9.4			462.2			-10.5	9	0.0	0.0	0.0
Jul-19	AN	7.8	7.8			432.3			1.5	0	0.0	0.0	0.0
Aug-19	AN	7.6	7.6			445.7			1.6	0	0.0	0.0	0.0
Sep-19	AN	7.4	7.4			408.5			-5.2	10	0.0	0.0	0.0
Oct-19	AN	7.7	7.7			460.4			-7.2	17	0.0	0.0	0.0
Nov-19	AN	8.8	8.8			452.3			22.8	0	0.0	0.0	0.0
Dec-19	AN	10.4	8.8			251.3			6.6	3	99.2	99.2	0.0
Calendar Year 2019						3,720.0	0.0	0.0	-87.8	74	1,755.6	99.2	0.0
Winter 2020	AN	17.8	11.5	0.0	0.00	1,258.2	0.0		-164.3	47	1,512.5	0.0	0.0
May-20	AN	11.7	11.5			604.1			3.2	0	12.4	0.0	0.0
Jun-20	AN	9.4	9.4			485.9			10.7	8	0.0	0.0	0.0
Jul-20	AN	7.8	7.8			422.0			0.0	0	0.0	0.0	0.0
Aug-20	AN	7.6	7.6			424.0			-2.4	17	0.0	0.0	0.0
Sep-20	AN	7.4	7.4			421.1			5.3	0	0.0	0.0	0.0
Oct-20	AN	7.7	3.0			201.2			58.5	0	288.3	288.3	0.0
Nov-20	AN	8.8	3.0			176.7			62.5	0	345.0	345.0	0.0
Dec-20	AN	10.4	3.3			162.1			14.7	0	437.1	437.1	0.0
Calendar Year 2020						4,155.3	0.0	155.3	-11.8	72	2,595.3	1,070.4	0.0
Total Groundwater Bank =												5,000.0	
Initial Conditions for Winter 2021	TBD	TBD	11.2	-	-	TBD	TBD	TBD	TBD	TBD	5,000.0	TBD	TBD

Table 2. (continued) Monthly Credit Accounting, Calendar Year 2003 through 2020 LEGEND

Column	Description
(1) Month	Winter period (Jan-April), Non-Winter period (May-Dec)
(2) Hydrologic Index	Hydrologic Index as determined on May 1st: CD (Critically Dry), BN (Below Normal), AN (Above Normal), VW (Very Wet)
(3) Table 5 Flow Requirement	Table 5 Flow Requirement for the winter and non-winter period determined after May 1st
(4) Section 5 Flow Requirement	Section 5 Flow Requirement (or Minimum Flow Requirement) for the winter period before May 1st <i>Winter Section 5 Flow Requirement</i> = 11.5 - Climatic Credit Applied - CAP Credit Applied <i>Non-Winter Section 5 Flow Requirement</i> = the minimum of 11.5 and the Table 5 Flow Requirement
(5) Climatic Credit Applied	The 2013 Minimum Daily Flow Requirement was computed based on credits equal to 1,396 AF. The total credit of 1,396 AF was converted to an equivalent winter-time flow rate in cfs (5.9 cfs), which was then subtracted from 11.5 cfs for a Minimum Daily Flow Requirement of 5.6 cfs. In the Calendar Year 2013 section of this table, the cfs-equivalent flow rates for Climatic Credit (5.2 cfs, Column 5) and CAP Credit (0.6 cfs, Column 6) do not add up to 5.9 cfs due to rounding.
(6) CAP Credit Applied	Sum of the daily Climatic Credits Applied in the winter of the calendar year.
(7) Augmentation at WR-34	Sum of the daily CAP Credits Applied in the winter of the calendar year. Augmentation at WR-34 by the District. Note that Augmentation is never greater than the daily WEB flows at Gorge.
(8) Climatic Credit Earned	Sum of the daily Climatic Credits earned in the winter of a BN or CD year, as calculated after May 1st.
(9) CAP Credit Earned	CAP Credit earned on years when > 4,000 AF of Augmentation, as calculated at the end of the year.
(10) Operations Data	Operations Data is a measure of operational efficiency calculated as the sum of all daily shortages and daily excess.
(11) Section 5 Flow Violation	Section 5 flow violation is the number of days when the 10-day running average is less than the Minimum Flow Requirement.
(12) Groundwater Bank	Groundwater Bank = 2/3 Natural Flow at Gorge (Section 5 Table) - Actual Flow Requirement as determined on May 1st - emergency flow deliveries requested by Camp Pendleton. The Actual Flow Requirement reveals the flow that the District would have released during the winter period if the Hydrologic Index was known at the beginning of the year.
(13) Foregone Make-Up Water	Camp Pendleton may acquire rights to groundwater above the Gorge by foregoing its right to Make-up Water from the District. Camp Pendleton took action on October 23, 2003 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge from AN to BN conditions. Camp Pendleton took action on November 23, 2005 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge from VW to BN conditions. Camp Pendleton took action on December 4, 2006 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge from BN to CD conditions. Camp Pendleton took action on November 20, 2008 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge from AN to CD conditions. Camp Pendleton took action on August 1, 2009 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge from AN to CD conditions. Camp Pendleton took action on July 16, 2010 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge from VW to BN conditions. Camp Pendleton took action on July 25, 2011 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge from VW to BN conditions. Camp Pendleton took action on August 20, 2014 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge from BN to CD conditions. The District implemented this change on November 1, 2014. Camp Pendleton took action on November 16, 2017 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge from AN to BN conditions. The District implemented this change on November 17, 2017. Camp Pendleton took action on November 7, 2019 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge in December 2019 from 10.4 cfs to 8.8 cfs. The District implemented this change on December 1, 2019. Camp Pendleton took action on September 30, 2020 to reduce the impact of the CAP Credit by requesting the District reduce flow Augmentation at the Gorge in from AN to CD conditions. The District implemented this change on October 1, 2020.
(14) Emergency Flows	Emergency flows may be called upon by the Commanding General of Camp Pendleton when there is a water supply emergency.

PRELIMINARY ATTACHMENTS FOR ANNUAL WATERMASTER REPORT

TABLE 11.1

**SANTA MARGARITA RIVER WATERSHED: MONTHLY SUMMARY OF REQUIRED FLOWS,
DISCHARGES, CREDITS AND ACCOUNTS**

APPENDIX E

**SANTA MARGARITA RIVER WATERSHED: COOPERATIVE WATER RESOURCE MANAGEMENT
AGREEMENT REQUIRED FLOWS AND ACCOUNTS SANTA MARGARITA RIVER NEAR TEMECULA
(JANUARY - DECEMBER 2020)**

TABLE 11.1

SANTA MARGARITA RIVER WATERSHED
**MONTHLY SUMMARY OF REQUIRED FLOWS,
DISCHARGES, CREDITS AND ACCOUNTS
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT**

2020 CALENDAR YEAR - ABOVE NORMAL YEAR

Month	USGS Official	USGS Website	Minimum Flow	Section 5 Flows	No. of Days 10-day	Discharge from	Climatic Credits		Camp Pendleton Groundwater Bank /6	
	Discharge	Daily Discharge	Requirement				Flow	WR-34	Earned	Input
	AF	AF	cfs /1, 2	cfs /3	Running Average is Less than Required Flow	AF /4	AF /5	AF	AF	
Jan	627.3	672.0	11.5	17.8	11	426.7	0.0	387.5	5,000.0	
Feb	642.0	648.9	11.5	17.8	21	443.8	0.0	362.5	5,000.0	
Mar	5,226.6	5,179.7	11.5	17.8	8	188.5	0.0	387.5	5,000.0	
Apr	10,470.6	11,135.9	11.5	17.8	7	199.2	0.0	375.0	5,000.0	
May	710.1	710.3	11.5	11.7	0	604.1	0.0	12.4	5,000.0	
Jun	570.0	570.0	9.4	9.4	8	485.9	0.0	0.0	5,000.0	
Jul	479.8	479.8	7.8	7.8	0	422.0	0.0	0.0	5,000.0	
Aug	451.4	464.7	7.6	7.6	17	424.0	0.0	0.0	5,000.0	
Sep	457.8	445.6	7.4	7.4	0	421.1	0.0	0.0	5,000.0	
Oct	230.4	242.9	3.0	7.7	0	201.2	0.0	288.3	5,000.0	
Nov	232.0	241.1	3.0	8.8	0	176.7	0.0	345.0	5,000.0	
Dec	991.6	993.1	3.3	10.4	0	162.1	0.0	437.1	5,000.0	
CALENDAR										
YEAR	21,089.6	21,784.0			72	4,155.3	0.0	2,595.3	FULL	
TOTAL										

- 1 - Required flows for January through April are equal to 11.5 cfs. No credits were carried over from previous years.
- 2 - October through December flow requirements reduced from AN to CD rates per Camp Pendleton's request to forego water.
- 3 - The Table in Section 5 of the CWRMA sets forth guaranteed monthly flows at the Gorge once the Hydrologic Condition for the calendar year is established.
- 4 - CAP Credits equal the WR-34 discharge in excess of 4,000 AF. CAP Credit of 155 AF earned in 2020.
- 5 - Climatic Credits equal the WR-34 discharges less actual Flow Requirements, which is the flow indicated in Section 5 of the CWRMA less applicable credits but not less than 3.0 cfs. No Climatic Credits earned in 2020.
- 6 - Camp Pendleton's rights to groundwater equal the flow indicated in Section 5 of the CWRMA less the Actual Flow Maintenance Requirement, which cannot be less than 3.0 cfs. Input to the Groundwater Bank shown but cumulative balance did not increase due to account balance maximum of 5,000 AF.

APPENDIX E

**SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA**

JANUARY 2020 - ABOVE NORMAL YEAR

Day	CAMP PENDLETON GROUNDWATER BANK												
	USGS Official Discharge cfs	USGS Daily Website Discharge cfs	10-Day Running Average of Website Discharge cfs	Minimum Flow Maintenance Requirement /1 cfs	Running Average Less Required Flow cfs	WR-34 Make-Up Discharge cfs	Climatic Credit Earned cfs	AF	Input /2 cfs	Input AF	Output cfs	Output AF	Cumulative Balance AF
1	8.21	11.6				5.2	10.3	0.0	0.0	12.5	0.0	0.0	5,000.0
2	6.32	9.27				4.2	8.4	0.0	0.0	12.5	0.0	0.0	5,000.0
3	5.61	8.38				4.0	7.9	0.0	0.0	12.5	0.0	0.0	5,000.0
4	5.40	8.11				4.0	8.0	0.0	0.0	12.5	0.0	0.0	5,000.0
5	6.01	8.89				4.8	9.5	0.0	0.0	12.5	0.0	0.0	5,000.0
6	6.20	6.20				5.3	10.6	0.0	0.0	12.5	0.0	0.0	5,000.0
7	9.13	9.13				7.9	15.7	0.0	0.0	12.5	0.0	0.0	5,000.0
8	10.0	10.0				8.7	17.3	0.0	0.0	12.5	0.0	0.0	5,000.0
9	10.1	10.1				8.7	17.3	0.0	0.0	12.5	0.0	0.0	5,000.0
10	11.6	11.6				10.2	20.2	0.0	0.0	12.5	0.0	0.0	5,000.0
11	11.9	11.9		11.5	-2.1	10.4	20.7	0.0	0.0	12.5	0.0	0.0	5,000.0
12	12.0	12.0		11.5	-1.9	10.4	20.7	0.0	0.0	12.5	0.0	0.0	5,000.0
13	12.1	12.1		11.5	-1.5	10.5	20.9	0.0	0.0	12.5	0.0	0.0	5,000.0
14	12.1	12.1		11.5	-1.1	10.5	20.9	0.0	0.0	12.5	0.0	0.0	5,000.0
15	12.1	12.1		11.5	-0.8	10.5	20.9	0.0	0.0	12.5	0.0	0.0	5,000.0
16	12.1	12.1		11.5	-0.2	10.5	20.9	0.0	0.0	12.5	0.0	0.0	5,000.0
17	12.3	12.3		11.5	0.1	10.5	20.9	0.0	0.0	12.5	0.0	0.0	5,000.0
18	12.3	12.3		11.5	0.4	10.5	20.9	0.0	0.0	12.5	0.0	0.0	5,000.0
19	12.3	12.3		11.5	0.6	10.5	20.9	0.0	0.0	12.5	0.0	0.0	5,000.0
20	12.3	12.3		11.5	0.7	10.5	20.9	0.0	0.0	12.5	0.0	0.0	5,000.0
21	14.5	14.6		11.5	0.9	5.9	11.8	0.0	0.0	12.5	0.0	0.0	5,000.0
22	6.83	7.35		11.5	0.5	3.1	6.2	0.0	0.0	12.5	0.0	0.0	5,000.0
23	10.8	11.6		11.5	0.4	8.6	17.1	0.0	0.0	12.5	0.0	0.0	5,000.0
24	11.4	12.2		11.5	0.4	9.8	19.5	0.0	0.0	12.5	0.0	0.0	5,000.0
25	11.1	12.0		11.5	0.4	10.0	19.8	0.0	0.0	12.5	0.0	0.0	5,000.0
26	10.2	11.0		11.5	0.3	8.7	17.3	0.0	0.0	12.5	0.0	0.0	5,000.0
27	7.86	8.49		11.5	-0.1	0.3	0.6	0.0	0.0	12.5	0.0	0.0	5,000.0
28	11.1	11.9		11.5	-0.1	0.3	0.6	0.0	0.0	12.5	0.0	0.0	5,000.0
29	10.7	11.5		11.5	-0.2	0.0	0.0	0.0	0.0	12.5	0.0	0.0	5,000.0
30	10.7	11.5		11.5	-0.3	0.0	0.0	0.0	0.0	12.5	0.0	0.0	5,000.0
31	11.0	11.9		11.5	-0.6	0.0	0.0	0.0	0.0	12.5	0.0	0.0	5,000.0
TOTAL SFD	316.3	338.8	237.3	241.5	-4.2	214.5	426.7	0.0	0.0	387.5	0.0	0.0	5,000.0
TOTAL AF	627.3	672.0	470.7	479.0	-8.3								

1 - Required flows for January through April are equal to 11.5 cfs. No credits were carried over from previous years.
 2 - Art. 17 - Camp Pendleton rights to groundwater equal the flow indicated in Section 5 of the CWRMA minus the Actual Flow Maintenance Requirement which cannot be less than 3.0 cfs. Input to Groundwater Bank shown but cumulative balance did not increase due to account balance maximum of 5,000 AF.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
 COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
 SANTA MARGARITA RIVER NEAR TEMECULA

FEBRUARY 2020 - ABOVE NORMAL YEAR

Day	CAMP PENDLETON GROUNDWATER BANK											
	USGS Official Discharge cfs	USGS Daily Website Discharge cfs	10-Day Running Average of Website Discharge cfs	Minimum Flow Maintenance Requirement /1 cfs	Running Average Less Required Flow cfs	WR-34 Make-Up Discharge cfs	Climatic Credit Earned AF	Input /2 cfs	Input AF	Output cfs	Output AF	Cumulative Balance AF
1	10.7	11.5	11.4	11.5	-0.1	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0
2	10.3	11.4	11.3	11.5	-0.2	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0
3	10.3	11.9	11.3	11.5	-0.2	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0
4	10.2	10.2	11.1	11.5	-0.4	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0
5	10.3	10.3	11.1	11.5	-0.4	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0
6	11.5	11.5	11.4	11.5	-0.1	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0
7	11.2	11.2	11.3	11.5	-0.2	5.7	11.4	6.3	12.5	0.0	0.0	5,000.0
8	11.2	11.2	11.3	11.5	-0.2	11.0	21.8	6.3	12.5	0.0	0.0	5,000.0
9	11.4	11.4	11.3	11.5	-0.2	11.0	21.8	6.3	12.5	0.0	0.0	5,000.0
10	11.4	11.4	11.2	11.5	-0.3	11.0	21.8	6.3	12.5	0.0	0.0	5,000.0
11	11.5	11.5	11.2	11.5	-0.3	11.0	21.8	6.3	12.5	0.0	0.0	5,000.0
12	11.3	11.3	11.2	11.5	-0.3	11.0	21.8	6.3	12.5	0.0	0.0	5,000.0
13	11.2	11.2	11.1	11.5	-0.4	11.0	21.8	6.3	12.5	0.0	0.0	5,000.0
14	11.2	11.2	11.2	11.5	-0.3	11.0	21.8	6.3	12.5	0.0	0.0	5,000.0
15	11.2	11.2	11.3	11.5	-0.2	11.0	21.8	6.3	12.5	0.0	0.0	5,000.0
16	11.2	11.2	11.3	11.5	-0.2	11.0	21.8	6.3	12.5	0.0	0.0	5,000.0
17	11.2	11.2	11.3	11.5	-0.2	11.0	21.8	6.3	12.5	0.0	0.0	5,000.0
18	8.70	8.70	11.0	11.5	-0.5	8.4	16.7	6.3	12.5	0.0	0.0	5,000.0
19	11.5	11.5	11.0	11.5	-0.5	11.3	22.4	6.3	12.5	0.0	0.0	5,000.0
20	11.5	11.5	11.1	11.5	-0.4	11.3	22.4	6.3	12.5	0.0	0.0	5,000.0
21	11.7	11.7	11.1	11.5	-0.4	11.4	22.6	6.3	12.5	0.0	0.0	5,000.0
22	21.0	21.0	12.0	11.5	0.5	9.1	18.1	6.3	12.5	0.0	0.0	5,000.0
23	19.2	19.2	12.8	11.5	1.3	11.4	22.7	6.3	12.5	0.0	0.0	5,000.0
24	12.8	12.8	13.0	11.5	1.5	8.8	17.5	6.3	12.5	0.0	0.0	5,000.0
25	11.2	11.2	13.0	11.5	1.5	9.4	18.7	6.3	12.5	0.0	0.0	5,000.0
26	8.29	8.29	12.7	11.5	1.2	7.6	15.0	6.3	12.5	0.0	0.0	5,000.0
27	6.81	6.81	12.3	11.5	0.8	6.3	12.5	6.3	12.5	0.0	0.0	5,000.0
28	6.85	6.85	12.1	11.5	0.6	6.5	12.9	6.3	12.5	0.0	0.0	5,000.0
29	6.80	6.80	11.6	11.5	0.1	6.5	12.9	6.3	12.5	0.0	0.0	5,000.0
TOTAL SFD	323.7	327.2	335.0	333.5	1.5	223.7	443.8	182.7	362.5	0.0	0.0	5,000.0
TOTAL AF	642.0	648.9	664.5	661.5	3.0							

1 - Required flows for January through April are equal to 11.5 cfs. No credits were carried over from previous years.
 2 - Art. 17 - Camp Pendleton rights to groundwater equal the flow indicated in Section 5 of the CWRMA minus the Actual Flow Maintenance Requirement which cannot be less than 3.0 cfs. Input to Groundwater Bank shown but cumulative balance did not increase due to account balance maximum of 5,000 AF.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
 COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
 SANTA MARGARITA RIVER NEAR TEMECULA

MARCH 2020 - ABOVE NORMAL YEAR

CAMP PENDLETON
 GROUNDWATER BANK

Day	USGS Official Discharge		USGS Daily Website Discharge		10-Day Running Average of Website Discharge		Minimum Flow Maintenance Requirement		Running Average Flow Less Required		WR-34 Make-Up Discharge		Climatic Credit Earned		Input / 2		Output		Cumulative Balance		
	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	cfs	AF	
1	10.6	10.6	10.6	11.5	11.5	0.0	5.8	11.6	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
2	7.76	7.76	7.76	11.1	11.5	-0.4	7.1	14.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
3	9.95	9.95	9.95	10.0	11.5	-1.5	9.0	17.9	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
4	10.5	10.5	10.5	9.2	11.5	-2.3	10.2	20.2	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
5	11.4	11.4	11.4	9.0	11.5	-2.5	11.2	22.2	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
6	11.4	11.4	11.4	9.0	11.5	-2.5	11.2	22.2	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
7	11.4	11.4	11.4	9.3	11.5	-2.2	11.2	22.2	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
8	11.4	11.4	11.4	9.8	11.5	-1.7	11.1	22.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
9	11.5	11.5	11.5	10.3	11.5	-1.2	11.1	22.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
10	542.	542.	542.	63.8	11.5	52.3	3.3	6.6	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
11	167.	167.	167.	79.4	11.5	67.9	0.1	0.2	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
12	667.	667.	667.	145.2	11.5	133.7	0.1	0.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
13	349.	349.	349.	178.6	11.5	167.1	0.1	0.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
14	76.3	76.3	76.3	185.0	11.5	173.5	0.1	0.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
15	26.4	26.4	26.4	186.4	11.5	174.9	0.1	0.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
16	13.1	13.1	13.1	186.5	11.5	175.0	0.1	0.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
17	73.0	73.0	73.0	192.5	11.5	181.0	0.1	0.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
18	42.6	42.6	42.6	195.5	11.5	184.0	0.1	0.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
19	40.5	40.5	40.5	198.3	11.5	186.8	0.1	0.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
20	60.4	60.4	60.4	150.0	11.5	138.5	0.1	0.1	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
21	19.2	19.2	19.2	135.2	11.5	123.7	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
22	10.1	10.1	10.1	69.7	11.5	58.2	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
23	334.	334.	334.	68.3	11.5	56.8	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
24	53.8	53.8	53.8	66.0	11.5	54.5	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
25	21.5	21.5	21.5	65.6	11.5	54.1	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
26	13.2	13.2	13.2	65.6	11.5	54.1	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
27	9.63	9.63	9.63	59.4	11.5	47.9	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
28	5.41	5.41	5.41	55.7	11.5	44.2	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
29	3.62	3.62	3.62	52.1	11.5	40.6	0.2	0.3	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
30	6.78	6.78	6.78	46.9	11.5	35.4	1.5	3.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
31	4.65	4.65	4.65	45.5	11.5	34.0	1.5	3.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0					
TOTAL SFD	2,635.1	2,611.4	2,611.4	2,580.4	356.5	2,223.9	95.4	188.5	0.0	0.0	0.0	195.3	387.5	0.0	0.0	5,000.0					
TOTAL AF	5,226.6	5,179.7	5,179.7	5,118.1	707.1	4,411.0															

1 - Required flows for January through April are equal to 11.5 cfs. No credits were carried over from previous years.
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APPENDIX E

SANTA MARGARITA RIVER WATERSHED
 COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
 SANTA MARGARITA RIVER NEAR TEMECULA

APRIL 2020 - ABOVE NORMAL YEAR

CAMP PENDLETON
 GROUNDWATER BANK

Day	USGS Official Discharge		USGS Daily Website Discharge		10-Day Running Average of Website Discharge		Minimum Flow Maintenance Requirement /1		Running Average Flow Less Required		WR-34 Make-Up Discharge		Climatic Credit Earned		Input /2		Output		Cumulative Balance AF
	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	
1	7.42	7.10	45.2	11.5	33.7	4.9	9.7	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
2	11.2	10.8	13.3	11.5	1.8	9.1	18.1	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
3	13.0	12.5	9.3	11.5	-2.2	11.1	22.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
4	12.2	11.8	8.4	11.5	-3.1	10.5	20.9	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
5	11.3	10.9	8.2	11.5	-3.3	9.7	19.2	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
6	269.	269.	34.2	11.5	22.7	6.4	12.6	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
7	734.	734.	107.0	11.5	95.5	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
8	423.	423.	149.0	11.5	137.5	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
9	340.	339.	182.3	11.5	170.8	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
10	2,600.	2,720.	453.8	11.5	442.3	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
11	491.	574.	510.5	11.5	499.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
12	99.9	136.	523.0	11.5	511.5	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
13	52.1	76.0	529.4	11.5	517.9	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
14	34.8	53.1	533.5	11.5	522.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
15	25.6	39.7	536.4	11.5	524.9	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
16	19.9	31.3	512.6	11.5	501.1	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
17	15.3	25.2	441.7	11.5	430.2	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
18	11.8	20.8	401.5	11.5	390.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
19	10.1	18.8	369.5	11.5	368.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
20	8.65	9.86	98.5	11.5	87.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
21	6.89	8.23	41.9	11.5	30.4	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
22	5.87	7.37	29.0	11.5	17.5	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
23	5.40	5.40	22.0	11.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
24	7.56	7.56	17.4	11.5	5.9	2.2	4.4	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
25	7.03	7.03	14.2	11.5	2.7	3.0	6.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
26	10.2	10.2	12.0	11.5	0.5	6.8	13.5	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
27	11.3	11.3	10.7	11.5	-0.8	8.6	17.1	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
28	11.3	11.3	9.7	11.5	-1.8	9.0	17.9	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
29	11.5	11.5	9.0	11.5	-2.5	9.5	18.8	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
30	11.6	11.6	9.1	11.5	-2.4	9.6	19.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	5,000.0			
TOTAL SFD	5,278.9	5,614.4	5,642.3	345.0	5,297.3	100.4	199.2	0.0	0.0	0.0	0.0	189.0	375.0	0.0	0.0	5,000.0			
TOTAL AF	10,470.6	11,135.9	11,191.3	684.3	10,507.0														

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APPENDIX E

SANTA MARGARITA RIVER WATERSHED
 COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
 SANTA MARGARITA RIVER NEAR TEMECULA

MAY 2020 - ABOVE NORMAL YEAR

CAMP PENDLETON
 GROUNDWATER BANK

Day	USGS Official Discharge		USGS Daily Website Discharge		10-Day Running Average of Website Discharge		Minimum Flow Maintenance Requirement / 1		Running Average Less Required Flow		WR-34 Make-Up Discharge		Climatic Credit Earned		Input		Output		Cumulative Balance	
	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	AF	cfs	AF	cfs	AF	cfs	AF	AF	AF
1	11.5	11.5	11.5	11.5							9.5	18.9	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
2	11.5	11.5	11.5	11.5							9.6	19.0	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
3	11.4	11.4	11.4	11.4							9.6	19.0	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
4	11.3	11.3	11.3	11.3							9.5	18.9	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
5	11.5	11.5	11.5	11.5							9.6	19.0	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
6	11.5	11.5	11.5	11.5							9.6	19.0	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
7	11.3	11.3	11.3	11.3							9.6	19.0	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
8	11.3	11.3	11.3	11.3							9.6	19.0	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
9	11.4	11.4	11.4	11.4							9.6	19.0	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
10	11.5	11.5	11.5	11.5							9.6	19.0	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
11	11.7	11.7	11.7	11.7							9.8	19.4	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
12	11.9	11.9	11.9	11.9		11.5			0.0		10.0	19.8	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
13	11.9	11.9	11.9	11.9		11.5			0.0		10.0	19.8	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
14	11.8	11.8	11.8	11.8		11.5			0.1		10.0	19.8	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
15	11.6	11.6	11.6	11.6		11.5			0.1		9.9	19.6	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
16	11.5	11.5	11.5	11.5		11.5			0.1		9.8	19.4	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
17	11.5	11.5	11.5	11.5		11.5			0.1		9.8	19.4	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
18	11.5	11.5	11.5	11.5		11.5			0.1		9.8	19.4	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
19	11.5	11.5	11.5	11.5		11.5			0.1		9.8	19.5	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
20	11.4	11.4	11.4	11.4		11.5			0.1		9.8	19.5	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
21	11.4	11.4	11.4	11.4		11.5			0.1		9.8	19.5	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
22	11.4	11.4	11.4	11.4		11.5			0.1		9.8	19.5	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
23	11.4	11.4	11.4	11.4		11.5			0.0		9.8	19.5	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
24	11.5	11.5	11.5	11.5		11.5			0.0		9.9	19.7	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
25	11.6	11.6	11.6	11.6		11.5			0.0		10.0	19.9	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
26	11.6	11.6	11.6	11.6		11.5			0.0		10.1	20.1	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
27	11.6	11.6	11.6	11.6		11.5			0.0		10.1	20.1	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
28	11.6	11.6	11.6	11.6		11.5			0.0		10.1	20.1	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
29	11.8	11.8	11.8	11.8		11.5			0.0		10.1	20.1	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
30	11.9	11.9	11.9	11.9		11.5			0.1		10.1	20.1	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
31	11.7	11.7	11.7	11.7		11.5			0.1		10.1	20.1	0.0	0.0	0.2	0.4	0.0	0.0	5,000.0	0.0
TOTAL SFD	358.0	358.1	358.1	358.1	242.6	241.5	1.1	304.4	1.1	604.1	0.0	0.0	6.2	12.4	0.0	0.0	0.0	0.0	5,000.0	0.0
TOTAL AF	710.1	710.3	710.3	710.3	481.2	479.0	2.2		2.2											

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for an Above Normal year.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
 COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
 SANTA MARGARITA RIVER NEAR TEMECULA

JUNE 2020 - ABOVE NORMAL YEAR

CAMP PENDLETON
 GROUNDWATER BANK

Day	USGS Official		USGS Daily		10-Day Running		Minimum Flow		Running Average		WR-34 Make-Up		Climatic Credit Earned		Input		Output		Cumulative			
	Discharge	Discharge	Website	Discharge	Average of	Website Discharge	Requirement /1	Flow	Less Required	Discharge	AF	cfs	AF	cfs	AF	cfs	AF	cfs	AF	Balance	AF	
1	11.7	11.7	11.7	11.7						10.1	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
2	11.7	11.7	11.7	11.7						10.1	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
3	11.1	11.1	11.1	11.1						9.5	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
4	9.46	9.46	9.46	9.46						8.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
5	9.46	9.46	9.46	9.46						7.8	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
6	9.41	9.41	9.41	9.41						7.6	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
7	9.32	9.32	9.32	9.32						7.6	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
8	9.36	9.36	9.36	9.36						7.6	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
9	9.49	9.49	9.49	9.49						7.9	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
10	9.43	9.43	9.43	9.43						8.1	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
11	7.13	7.13	7.13	7.13						6.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
12	9.45	9.45	9.45	9.45			9.4	0.2		8.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
13	9.45	9.45	9.45	9.45			9.4	0.0		8.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
14	9.46	9.46	9.46	9.46			9.4	-0.2		8.1	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
15	9.46	9.46	9.46	9.46			9.4	-0.2		8.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
16	9.45	9.45	9.45	9.45			9.4	-0.2		8.1	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
17	9.46	9.46	9.46	9.46			9.4	-0.2		8.1	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
18	9.47	9.47	9.47	9.47			9.4	-0.2		8.1	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
19	9.45	9.45	9.45	9.45			9.4	-0.2		8.1	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
20	9.47	9.47	9.47	9.47			9.4	-0.2		8.1	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
21	9.49	9.49	9.49	9.49			9.4	0.1		8.1	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
22	9.45	9.45	9.45	9.45			9.4	0.1		8.1	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
23	9.47	9.47	9.47	9.47			9.4	0.1		8.1	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
24	9.49	9.49	9.49	9.49			9.4	0.1		8.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
25	9.49	9.49	9.49	9.49			9.4	0.1		8.2	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
26	9.50	9.50	9.50	9.50			9.4	0.1		8.2	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
27	9.48	9.48	9.48	9.48			9.4	0.1		8.3	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
28	9.46	9.46	9.46	9.46			9.4	0.1		8.3	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
29	9.48	9.48	9.48	9.48			9.4	0.1		8.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
30	9.40	9.40	9.40	9.40			9.4	0.1		8.1	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
TOTAL SFD	287.4	287.4	287.4	287.4			188.0	-0.4		245.3	485.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0	
TOTAL AF	570.0	570.0	570.0	570.0			372.9	-0.8														

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for an Above Normal year.

APPENDIX E

**SANTA MARGARITA RIVER WATERSHED
COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
SANTA MARGARITA RIVER NEAR TEMECULA**

JULY 2020 - ABOVE NORMAL YEAR

**CAMP PENDLETON
GROUNDWATER BANK**

Day	USGS Official Discharge		USGS Daily Website Discharge		10-Day Running Average of Website Discharge		Minimum Flow Maintenance Requirement / 1		Running Average Less Required Flow		WR-34 Make-Up Discharge		Climatic Credit Earned		Input		Output		Cumulative Balance		
	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	AF	AF	cfs	cfs	AF	AF	AF	AF	
1	7.81	7.81	7.81								6.6	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
2	7.82	7.82	7.82								6.6	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
3	7.80	7.80	7.80								6.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
4	7.82	7.82	7.82								6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
5	7.80	7.80	7.80								6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
6	7.80	7.80	7.80								7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
7	7.73	7.73	7.73								5.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
8	7.80	7.80	7.80								7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
9	7.79	7.79	7.79								7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
10	7.81	7.81	7.81								7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
11	7.82	7.82	7.82		7.8						7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
12	7.81	7.81	7.81		7.8						7.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
13	7.81	7.81	7.81		7.8						7.1	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
14	7.81	7.81	7.81		7.8						7.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
15	7.80	7.80	7.80		7.8						7.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
16	7.80	7.80	7.80		7.8						7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
17	7.86	7.86	7.86		7.8						7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
18	7.80	7.80	7.80		7.8						7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
19	7.84	7.84	7.84		7.8						7.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
20	7.80	7.80	7.80		7.8						7.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
21	7.64	7.64	7.64		7.8						7.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
22	7.80	7.80	7.80		7.8						6.5	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
23	7.79	7.79	7.79		7.8						6.9	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
24	7.81	7.81	7.81		7.8						6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
25	7.82	7.82	7.82		7.8						6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
26	7.79	7.79	7.79		7.8						7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
27	7.82	7.82	7.82		7.8						7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
28	7.81	7.81	7.81		7.8						6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
29	7.80	7.80	7.80		7.8						7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
30	7.81	7.81	7.81		7.8						7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
31	7.90	7.90	7.90		7.8						7.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
TOTAL SFD	241.9	241.9	241.9		163.8						213.3	422.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	
TOTAL AF	479.8	479.8	479.8		324.9																5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for an Above Normal year.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
 COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
 SANTA MARGARITA RIVER NEAR TEMECULA

AUGUST 2020 - ABOVE NORMAL YEAR

CAMP PENDLETON
 GROUNDWATER BANK

Day	USGS Official Discharge		USGS Daily Website Discharge		10-Day Running Average of Website Discharge		Minimum Flow Maintenance Requirement / 1		Running Average Less Required Flow		WR-34 Make-Up Discharge		Climatic Credit Earned		Input		Output		Cumulative Balance	
	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	AF	AF	cfs	cfs	AF	AF	AF	AF
1	7.32	7.63	7.63								6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
2	7.35	7.67	7.67								6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
3	7.34	7.66	7.66								6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
4	7.31	7.63	7.63								6.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
5	7.30	7.63	7.63								6.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
6	7.19	7.50	7.50								6.7	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
7	7.30	7.62	7.62								6.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
8	7.33	7.65	7.65								6.9	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
9	7.32	7.64	7.64								6.9	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
10	7.18	7.50	7.50								6.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
11	5.74	6.01	6.01				7.6				5.3	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
12	7.33	7.65	7.65				7.6		-0.1		6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
13	7.24	7.56	7.56				7.6		-0.2		6.9	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
14	7.53	7.86	7.86				7.6		-0.1		6.6	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
15	7.36	7.68	7.68				7.6		-0.1		6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
16	7.36	7.68	7.68				7.6		-0.1		6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
17	7.37	7.69	7.69				7.6		-0.1		7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
18	7.36	7.68	7.68				7.6		-0.1		7.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
19	7.36	7.68	7.68				7.6		-0.1		7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
20	7.34	7.66	7.66				7.6		-0.1		7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
21	7.32	7.65	7.65				7.6		0.1		6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
22	7.36	7.68	7.68				7.6		0.1		7.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
23	7.35	7.65	7.65				7.6		0.0		6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
24	7.34	7.64	7.64				7.6		0.0		6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
25	7.33	7.63	7.63				7.6		-0.1		6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
26	7.62	7.62	7.62				7.6		-0.1		7.2	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
27	7.68	7.68	7.68				7.6		-0.1		7.3	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
28	7.70	7.70	7.70				7.6		-0.1		7.3	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
29	7.64	7.64	7.64				7.6		-0.1		7.3	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
30	7.64	7.64	7.64				7.6		-0.1		7.3	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
31	7.69	7.69	7.69				7.6		-0.1		7.3	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL SFD	227.6	234.3	234.3				159.6		-1.7		214.2	424.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL AF	451.4	464.7	464.7				316.6		-3.4				0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for an Above Normal year.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
 COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
 SANTA MARGARITA RIVER NEAR TEMECULA

SEPTEMBER 2020 - ABOVE NORMAL YEAR

CAMP PENDLETON
 GROUNDWATER BANK

Day	USGS Official Discharge		USGS Daily Website Discharge		10-Day Running Average of Website Discharge		Minimum Flow Maintenance Requirement /1		Running Average Less Required Flow		WR-34 Make-Up Discharge		Climatic Credit Earned		Input		Output		Cumulative Balance	
	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	AF	AF	cfs	cfs	AF	AF	AF	AF
1	7.77	7.44									7.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
2	7.79	7.46									7.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
3	7.79	7.46									7.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
4	7.78	7.46									7.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
5	7.79	7.46									7.2	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
6	7.81	7.48									7.2	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
7	7.78	7.45									7.3	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
8	7.77	7.45									7.3	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
9	7.78	7.48									7.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
10	7.77	7.45									7.1	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
11	7.74	7.46					7.4	0.1			7.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
12	7.76	7.44					7.4	0.1			7.1	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
13	7.78	7.45					7.4	0.1			7.2	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
14	7.77	7.45					7.4	0.1			7.2	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
15	7.77	7.45					7.4	0.1			7.1	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
16	7.78	7.44					7.4	0.1			7.2	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
17	7.78	7.46					7.4	0.1			7.2	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
18	7.80	7.46					7.4	0.1			7.3	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
19	7.81	7.47					7.4	0.1			7.3	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
20	7.77	7.45					7.4	0.1			7.3	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
21	7.78	7.48					7.4	0.1			7.2	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
22	7.77	7.47					7.4	0.1			7.2	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
23	7.58	7.58					7.4	0.1			7.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
24	7.44	7.44					7.4	0.1			6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
25	7.45	7.45					7.4	0.1			6.9	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
26	7.44	7.44					7.4	0.1			6.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
27	7.45	7.45					7.4	0.1			6.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
28	7.45	7.45					7.4	0.1			6.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
29	7.40	7.40					7.4	0.1			6.8	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
30	7.47	7.47					7.4	0.1			6.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL SFD	230.8	224.7					148.0	2.0			212.7		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0
TOTAL AF	457.8	445.6					293.6	4.0			421.1		0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0

1 - Minimum Flow Maintenance Requirement equals the Section 5 flow for an Above Normal year.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
 COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
 SANTA MARGARITA RIVER NEAR TEMECULA

OCTOBER 2020 - ABOVE NORMAL YEAR

CAMP PENDLETON
 GROUNDWATER BANK

Day	USGS Official	USGS Daily	10-Day Running	Minimum Flow	Running Average	WR-34 Make-Up	Climatic Credit Earned		Input /2	Input	Output	Output	Cumulative
	Discharge	Website	Average of	Maintenance	Less Required	Discharge	cfs	AF	cfs	AF	cfs	AF	Balance
	cfs	cfs	Website	Requirement /1	Flow	cfs	AF	AF	cfs	AF	cfs	AF	AF
1	5.08	5.20				4.9	9.7	0.0	4.7	9.3	0.0	0.0	5,000.0
2	5.25	5.52				5.2	10.3	0.0	4.7	9.3	0.0	0.0	5,000.0
3	5.28	5.54				5.2	10.3	0.0	4.7	9.3	0.0	0.0	5,000.0
4	5.56	5.83				5.2	10.3	0.0	4.7	9.3	0.0	0.0	5,000.0
5	3.96	4.19				3.6	7.2	0.0	4.7	9.3	0.0	0.0	5,000.0
6	3.32	3.52				3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
7	3.35	3.55				3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
8	3.51	3.71				3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
9	3.52	3.73				3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
10	3.53	3.74				3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
11	3.52	3.73		3.0	1.3	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
12	3.52	3.73		3.0	1.1	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
13	3.45	3.73		3.0	0.9	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
14	3.35	3.66		3.0	0.7	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
15	3.34	3.55		3.0	0.7	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
16	3.32	3.54		3.0	0.7	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
17	3.33	3.53		3.0	0.7	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
18	3.34	3.53		3.0	0.6	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
19	3.52	3.73		3.0	0.6	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
20	3.53	3.74		3.0	0.6	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
21	3.61	3.82		3.0	0.7	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
22	3.63	3.84		3.0	0.7	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
23	3.62	3.83		3.0	0.7	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
24	3.68	3.89		3.0	0.7	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
25	3.73	3.94		3.0	0.8	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
26	3.68	3.89		3.0	0.8	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
27	3.56	3.77		3.0	0.8	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
28	3.54	3.74		3.0	0.8	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
29	3.53	3.74		3.0	0.8	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
30	3.50	3.50		3.0	0.8	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
31	3.51	3.51		3.0	0.8	3.0	5.9	0.0	4.7	9.3	0.0	0.0	5,000.0
TOTAL SFD	116.2	122.5	79.2	63.0	16.2	102.1	201.2	0.0	145.7	288.3	0.0	0.0	5,000.0
TOTAL AF	230.4	242.9	157.1	125.0	32.1								

1 - Minimum Flow Maintenance Requirement for October reduced from 7.7 cfs to 3.0 cfs per Camp Pendleton's request to forego water to minimize CAP credits.
 2 - Foregone make-up water credited to groundwater account but cumulative balance did not increase due to account balance maximum of 5,000 AF.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
 COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
 SANTA MARGARITA RIVER NEAR TEMECULA

NOVEMBER 2020 - ABOVE NORMAL YEAR

Day	CAMP PENDLETON GROUNDWATER BANK											
	USGS Official Discharge cfs	USGS Daily Website Discharge cfs	10-Day Running Average of Website Discharge cfs	Minimum Flow Maintenance Requirement /1 cfs	Running Average Less Required Flow cfs	WR-34 Make-Up Discharge cfs	Climatic Credit Earned AF	Input /2 cfs	Input AF	Output cfs	Output AF	Cumulative Balance AF
1	3.52	3.52				3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
2	3.52	3.52				3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
3	3.54	3.54				3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
4	3.53	3.53				3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
5	3.53	3.53				3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
6	3.54	3.54				3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
7	4.28	4.28				3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
8	4.86	4.86				3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
9	4.06	4.06				3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
10	4.40	4.53				3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
11	4.99	5.25			1.1	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
12	5.07	5.33			1.2	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
13	4.75	5.00			1.4	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
14	4.78	5.03			1.5	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
15	4.64	4.88			1.7	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
16	4.11	4.34			1.8	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
17	3.50	3.70			1.7	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
18	3.43	3.64			1.6	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
19	3.52	3.73			1.5	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
20	3.52	3.73			1.5	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
21	3.52	3.73			1.3	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
22	3.51	3.71			1.1	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
23	3.57	3.78			1.0	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
24	3.59	3.80			0.9	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
25	3.69	3.91			0.8	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
26	3.69	3.91			0.8	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
27	3.58	3.80			0.8	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
28	3.57	3.78			0.8	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
29	3.58	3.79			0.8	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
30	3.60	3.81			0.8	3.0	0.0	5.8	11.5	0.0	0.0	5,000.0
TOTAL SFD	117.0	121.6	84.1	60.0	24.1	89.7	0.0	174.0	345.0	0.0	0.0	5,000.0
TOTAL AF	232.0	241.1	166.8	119.0	47.8	176.7	0.0					

1 - Minimum Flow Maintenance Requirement for November reduced from 8.8 cfs to 3.0 cfs per Camp Pendleton's request to forego water to minimize CAP credits.
 2 - Foregone make-up water credited to groundwater account but cumulative balance did not increase due to account balance maximum of 5,000 AF.

APPENDIX E

SANTA MARGARITA RIVER WATERSHED
 COOPERATIVE WATER RESOURCE MANAGEMENT AGREEMENT REQUIRED FLOWS AND ACCOUNTS
 SANTA MARGARITA RIVER NEAR TEMECULA

DECEMBER 2020 - ABOVE NORMAL YEAR

Day	CAMP PENDLETON GROUNDWATER BANK											
	USGS Official Discharge cfs	USGS Daily Website Discharge cfs	10-Day Running Average of Website Discharge cfs	Minimum Flow Maintenance Requirement /1 cfs	Running Average Less Required Flow cfs	WR-34 Make-Up Discharge cfs	Climatic Credit Earned AF	Input /2 cfs	Input AF	Output cfs	Output AF	Cumulative Balance AF
1	3.58	3.79				3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
2	3.61	3.61				3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
3	3.58	3.58				3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
4	3.48	3.48				3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
5	3.38	3.38				3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
6	3.42	3.42				3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
7	3.49	3.49				3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
8	3.50	3.50				3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
9	3.43	3.43				3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
10	3.42	3.42				3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
11	3.51	3.51		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
12	3.52	3.52		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
13	3.52	3.52		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
14	3.53	3.53		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
15	3.52	3.52		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
16	3.51	3.51		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
17	3.51	3.51		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
18	3.51	3.51		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
19	3.46	3.46		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
20	3.58	3.58		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
21	3.58	3.58		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
22	3.53	3.53		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
23	3.52	3.52		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
24	3.53	3.53		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
25	3.52	3.52		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
26	3.54	3.54		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
27	3.57	3.57		3.3	0.2	3.0	0.0	7.1	14.1	0.0	0.0	5,000.0
28	186.	186.	21.8	3.3	18.5	1.1	2.2	7.1	14.1	0.0	0.0	5,000.0
29	192.	192.	40.6	3.3	37.3	0.2	0.4	7.1	14.1	0.0	0.0	5,000.0
30	20.5	20.8	42.4	3.3	39.1	0.1	0.1	7.1	14.1	0.0	0.0	5,000.0
31	6.59	6.82	42.7	3.3	39.4	0.1	0.1	7.1	14.1	0.0	0.0	5,000.0
TOTAL SFD	499.9	500.7	207.0	69.3	137.7	82.5	0.0	220.1	437.1	0.0	0.0	5,000.0
TOTAL AF	991.6	993.1	410.6	137.5	273.1	162.1	0.0					

1 - Minimum Flow Maintenance Requirement for December reduced from 10.4 cfs to 3.3 cfs per Camp Pendleton's request to forego water to minimize CAP credits.
 2 - Foregone make-up water credited to groundwater account but cumulative balance did not increase due to account balance maximum of 5,000 AF.

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ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

APPENDIX B-2

**2020 REQUESTED MODIFICATIONS FOR
REQUIRED MINIMUM DAILY FLOWS**



MEMORANDUM

2171 E. Francisco Blvd., Suite K • San Rafael, California • 94901
TEL: (415) 457-0701 FAX: (415) 457-1638 e-mail: mollyp@stetsonengineers.com

TO: Dan Bartu, Water Resources Division DATE: September 30, 2020
FROM: Stetson Engineers JOB NO: 2628-3001-1002
RE: Flow Augmentation at the Gorge for the Remainder of Calendar Year 2020

Stetson Engineers (Stetson) has reviewed this year's observed flow at the Gorge and augmentation to the Santa Margarita River by the Rancho California Water District (District) as stipulated in the Cooperative Water Resource Management Agreement (CWRMA). District augmentation releases from January 1, 2020 through September 30, 2020 are projected to be 3,618 acre-feet (AF)¹, consistent with calendar year 2020 Above Normal conditions. Between October 1, 2020 and December 31, 2020, up to 1,637 AF of water may be required to meet the CWRMA non-winter Section 5 flow requirements for Above Normal hydrologic conditions. Therefore, total augmentation by the District could reach up to 5,255 AF, which would lead to a 1,255 AF CAP credit². CAP credits may then be applied to reduce the winter-time flow requirements of the next two years resulting in a reduction of up to 2.6 cfs per year of winter flow releases in 2021 and 2022.

In order to minimize CAP credits earned by the District and the resulting impact of reduced winter period flows at the Gorge, Stetson recommends foregoing a portion of the Section 5 flow requirement for the remainder of calendar year 2020. Camp Pendleton may request that the District reduce flow augmentation to Critically Dry hydrologic conditions at the Gorge to minimize future CAP credits.

Table 1 summarizes the current Section 5 flow requirements for Above Normal conditions and the proposed Critically Dry flow requirements for the rest of the year. Total augmentation for 2020 and the CAP credit accrued may be reduced if precipitation-driven streamflow occurs at the Gorge prior to January 1, 2021.

¹ Releases for January 1 through September 28 from measurements at WR-34 meter; releases for September 29-30 estimated based on Above Normal flow requirement.

² The District earns CAP credit for releases made in excess of 4,000 AF in a calendar year.

**TABLE 1. SUMMARY OF 2020 SECTION 5 FLOW REQUIREMENT AND
PROPOSED FLOW REQUIREMENTS FOR THE REMAINDER OF 2020**

Release Period	Section 5 Flow Requirements – Above Normal (current)		Section 5 Flow Requirements – Critically Dry (proposed)		Foregone Quantity of Makeup Water
	(cfs)	(AF)	(cfs)	(AF)	(AF)
Jan. 1 – Sept 30		3,618 ^a		3,618 ^a	
October	7.7	473	3.0	184	289
November	8.8	524	3.0	179	345
December	10.4	639	3.3	203	437
Calendar Year Total ^b		5,255		4,184	1,071
CAP Credit ^c		1,255 ^d		184 ^e	

Notes:

- Releases for January 1 through Sept 28 based on recorded releases at WR-34 meter; Flows for Sept 29-30 estimated based on current flow requirement.
- Calendar Year Total and resulting CAP credits may be reduced if precipitation-driven streamflow occurs at the Gorge between now and December 31, 2020.
- CAP credit is volume of releases in excess of 4,000 AF in the calendar year. Any earned CAP credits may be applied by the District to reduce winter-time streamflow in 2021 and 2022.
- CAP credit of 1,255 AF is equivalent to a 2.6 cfs reduction in winter-time flow requirement during the 2021 and 2022 winter-time periods (January 1 - April 30).
- CAP credit of 184 AF is equivalent to a 0.4 cfs reduction in winter-time flow requirement during the 2021 and 2022 winter-time periods (January 1 - April 30).

Stetson recommends that Camp Pendleton request that the District reduce releases to beginning October 1, 2020, or as soon as possible, using a three-day ramp down period³ to reach 3.0 cfs. If you have any questions regarding our recommendation to reduce the CWRMA flow requirement for the remainder of the 2020 calendar year, please feel free to contact us at our Carlsbad office. This request to forego water is consistent with previous adjustments that both parties have implemented in previous years. Any precipitation-driven streamflow events that occur between today and December 31, 2020 will act to reduce or eliminate CAP credits under either the existing or proposed CWRMA flow requirements.

³ Rampdown should include three (3) days of releases at the midpoint between the current release rate and the proposed release rate, e.g. when transitioning from 7.4 cfs to 3.0 cfs, releases should be reduced to 5.2 cfs for three days, followed by a reduction to 3.0 cfs the next day. A similar three-day “rampup” should occur at the end of December when increasing the flow rate to the winter-time release rate on January 1, 2021.

From: [Rich Ottolini](#)
To: [Bartu CIV Daniel P](#)
Cc: [Kevin Marcoux](#)
Subject: [Non-DoD Source] RE: CWRMA Rate Adjustment to Minimize Cap Credits
Date: Wednesday, September 30, 2020 3:34:00 PM
Attachments: [image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)

Dan:

We are in receipt of your request and will initiate flow reduction as soon as possible.

Rich



Rich Ottolini, R.E.H.S., MSL | Water Operations Manager
RANCHO WATER | *Working for Our Community*
42135 Winchester Road, Temecula, CA 92590
Office: 951-296-6954 | Fax: 951-296-6862
ottolinir@ranchowater.com | ranchowater.com



From: Bartu CIV Daniel P <daniel.bartu@usmc.mil>
Sent: Wednesday, September 30, 2020 3:15 PM
To: Rich Ottolini <ottolinir@ranchowater.com>
Cc: Kevin Marcoux <marcouxk@ranchowater.com>
Subject: CWRMA Rate Adjustment to Minimize Cap Credits

Rich,

Attached is the recommendation from Stetson and the Base to forego make up water or minimize cap credits through a CWRMA rate reduction for the months of October through December. Please review and let us know if you agree or have any questions.

Dan

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ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

APPENDIX C-1

PALA PARK GROUNDWATER MONITORING WELL

Site Description
Pala Park Groundwater Monitoring Well
(8S/2W-19A1-6)

LOCATION: Latitude 33° 28' 19.67", longitude 117° 07' 06.86" (NAD83) in Riverside County, California. Well is located off Temecula Lane just south of Pala Community Park in Temecula, California.

SITE INFORMATION: Land-surface altitude is 1016.24 feet above mean sea level (NAVD88).

WATER-LEVEL RECORD: The period of record for intermittent and daily water-level measurements is listed below.

State well number	USGS station number	Intermittent water-level	Daily water-level
8S/2W-19A1	332819117070601	09/30/2006 to present	12/27/2006 to present
8S/2W-19A2	332819117070602	09/30/2006 to present	12/27/2006 to present
8S/2W-19A3	332819117070603	09/30/2006 to present	12/27/2006 to present
8S/2W-19A4	332819117070604	09/30/2006 to present	12/27/2006 to present
8S/2W-19A5	332819117070605	09/30/2006 to present	12/27/2006 to present
8S/2W-19A6	332819117070606	12/1/2008 to present	2/19/2009 to present

TOPOGRAPHIC MAP: USGS Pechanga, California, 7.5 minute series.

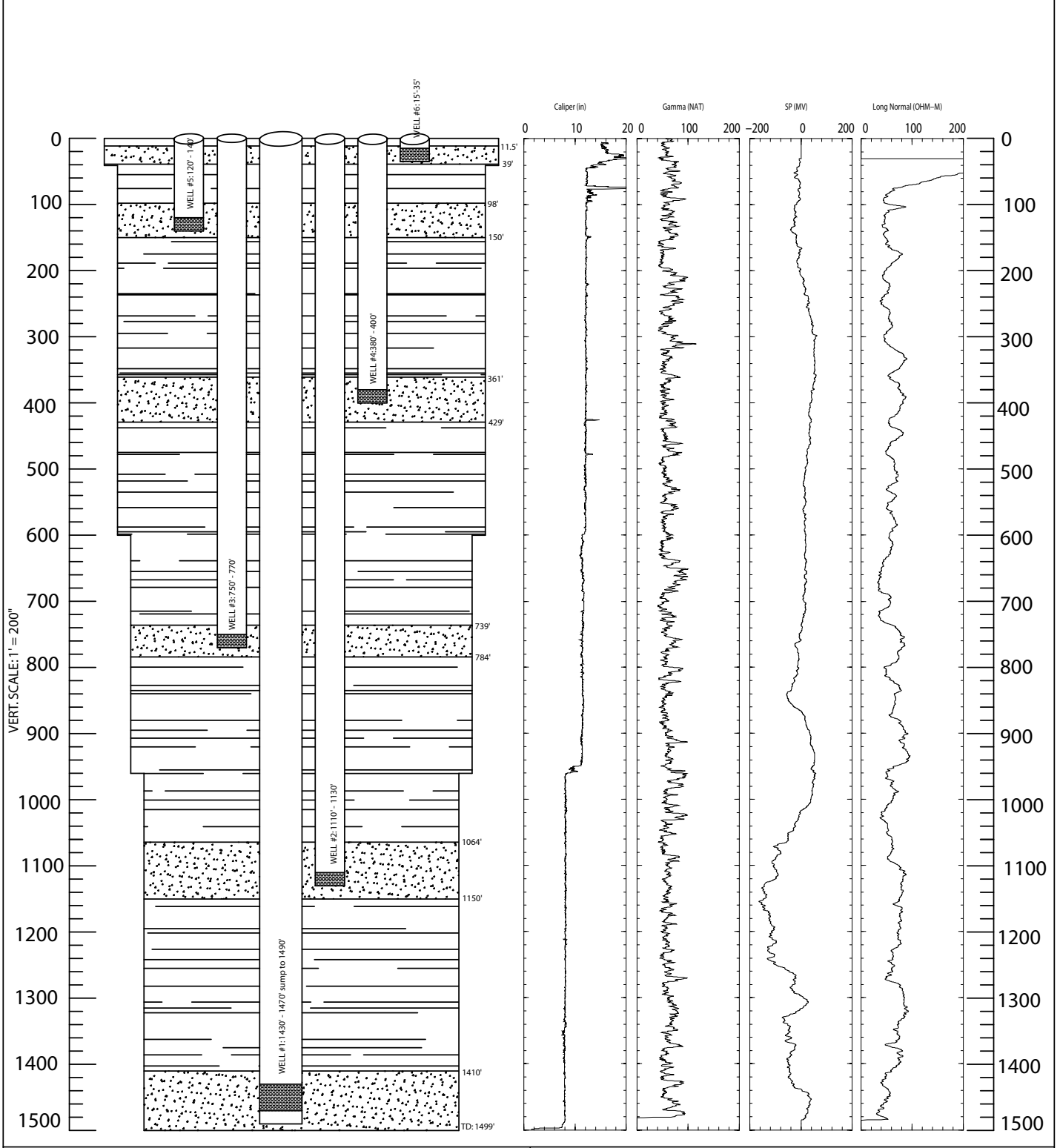
WELL SUMMARY INFORMATION:

State well number	USGS station number	Hole depth (ft)	Perforation depth (ft)	Casing size and type	Date drilled
8S/2W-19A1	332819117070601	1499	1430-1470	3" PVC	9/30/06
8S/2W-19A2	332819117070602	1499	1110-1130	2" PVC	9/30/06
8S/2W-19A3	332819117070603	1499	750-770	2" PVC	9/30/06
8S/2W-19A4	332819117070604	1499	380-400	2" PVC	9/30/06
8S/2W-19A5	332819117070605	1499	120-140	2" PVC	9/30/06
8S/2W-19A6	332819117070606	1499	15-35	2" PVC	9/30/06

ADDITIONAL INFORMATION:

Additional information for Pala Park Groundwater Monitoring Well can be found in Santa Margarita River Watershed 2007 Annual Watermaster Report including geophysical logs; core, shaker, and sieve lithological logs; and well completion reports. Information can also be found at the following web site: <http://ca.water.usgs.gov/temecula/>.

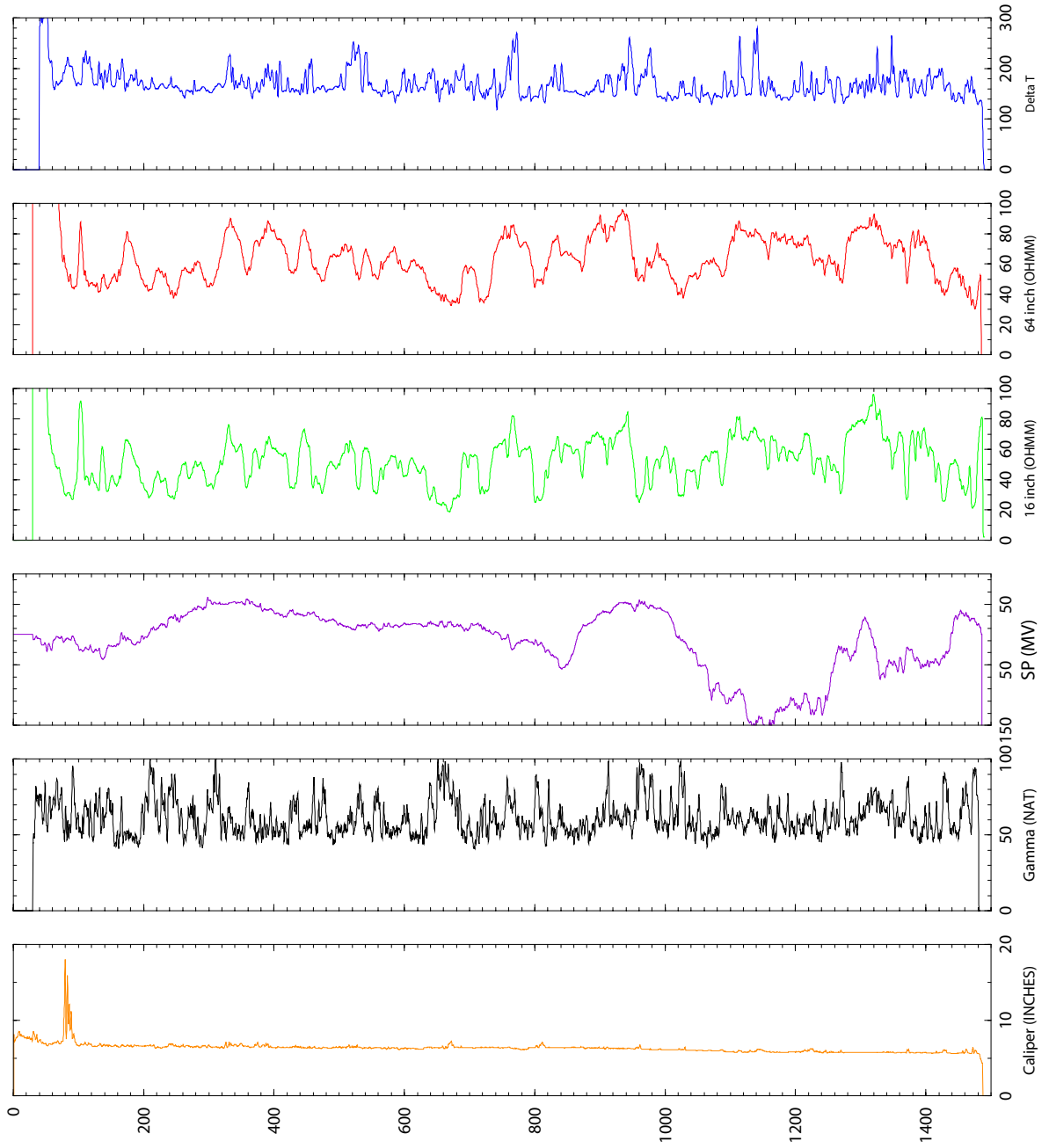
SITE I.D.: 3328191170706 01-06	COMPLETION DATE: 9/30/06
STATION NAME: 08S/02W-19A 01-06	TOTAL DEPTH: 1499'
USGS SITE: TMPP- Temecula Pala Park	WELL FINISH: VAULT
OWNER: Rancho California Water Agency	



DRILL TYPE: HYDRAULIC MUD ROTARY	DRILLER: USGS WESTERN REGION CREW
CASING TYPE: SCHD. 80 PVC 20' SEC.	SCREEN TYPE: SCHD. 80 1.5"x0.02"SLOTS
GROUT: PUREGOLD GROUT @ 30% SOLIDS	SAND: RMC LONESTAR #3
BOREHOLE DIA: 15": 0' - 41'; 12.25": 41' - 600'; 10.5": 600' - 960'; 8.5": 960' - 1499'	

TMPP

Pacific Surveys Logs



**End-of Month Piezometric Head for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
(elevation in feet, MSL)**

October 2006 through December 2020

Month	Well A1	Well A2	Well A3	Well A4	Well A5	Well A6
Oct 06	---	---	---	---	---	---
Nov	---	---	---	---	---	---
Dec	970.21	953.97	944.19	940.78	925.55	---
Jan 07	969.89	953.07	943.31	940.00	922.45	---
Feb	969.68	952.35	942.17	938.89	920.01	---
Mar	969.04	951.26	941.35	937.97	917.71	---
Apr	968.84	950.61	940.37	936.85	922.89	---
May	967.37	948.55	939.28	936.40	918.52	---
Jun	966.56	947.64	939.26	936.53	916.65	---
Jul	966.04	947.62	938.49	935.47	914.84	---
Aug	965.68	947.12	937.37	934.17	912.90	---
Sep	965.39	946.61	936.40	933.08	911.11	---
Oct	965.71	946.51	936.06	932.21	909.40	---
Nov	964.80	945.15	934.01	930.41	907.17	---
Dec	965.43	944.77	934.11	930.75	938.11	---
Jan 08	965.82	944.81	934.92	931.42	---	---
Feb	965.88	944.98	935.58	932.16	989.94	---
Mar	963.78	943.59	934.03	930.95	962.46	---
Apr	963.39	943.15	932.69	929.80	947.48	---
May	963.02	942.36	931.76	928.82	960.12	---
Jun	962.20	941.24	930.79	928.27	944.88	---
Jul	961.59	940.61	930.61	928.07	937.51	---
Aug	961.12	940.10	929.98	927.42	932.44	---
Sep	960.48	939.36	929.45	926.88	927.61	---
Oct	959.97	938.86	928.69	925.98	922.94	---
Nov	960.61	939.25	929.15	926.08	940.57	---
Dec	961.41	939.60	929.68	926.65	975.38	---
Jan 09	960.12	938.38	929.58	927.25	952.55	---
Feb	960.48	939.08	930.62	928.26	982.18	---
Mar	959.58	938.88	931.00	928.77	959.70	---
Apr	959.22	939.16	930.63	928.34	947.76	---
May	958.85	938.80	930.49	928.35	940.85	---
Jun	958.70	939.07	930.44	928.06	936.30	---
Jul	958.07	938.22	929.67	927.63	932.18	---
Aug	957.48	937.81	929.74	927.92	928.57	---
Sep	956.44	937.11	929.67	928.05	925.86	---
Oct	955.94	937.00	930.37	928.85	924.09	---
Nov	955.70	937.27	931.27	929.85	923.54	---
Dec	956.44	938.37	932.63	931.08	947.15	---
Jan 10	958.12	940.62	934.88	932.98	987.33	---
Feb	958.30	941.16	935.99	934.53	1000.20	---
Mar	957.39	941.23	936.94	935.78	973.96	---
Apr	957.31	941.82	936.78	936.37	981.43	---
May	957.13	942.30	937.22	936.81	964.51	---
Jun	957.56	942.96	937.31	937.02	956.53	---
Jul	957.38	943.04	937.35	937.12	950.82	---
Aug	957.68	943.50	937.65	937.39	947.11	---
Sep	957.79	943.75	937.81	937.44	944.16	---
Oct	958.02	943.82	938.09	937.85	958.25	---
Nov	959.06	944.92	939.69	939.11	961.49	---
Dec	960.31	946.27	941.49	941.05	999.57	992.04

**End-of Month Piezometric Head for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
(elevation in feet, MSL)**

October 2006 through December 2020

Month	Well A1	Well A2	Well A3	Well A4	Well A5	Well A6
Jan 11	959.48	946.04	942.22	942.24	982.16	---
Feb	959.81	946.94	942.67	943.04	996.72	991.56
Mar	960.32	947.70	943.87	944.55	992.96	990.82
Apr	959.54	947.67	944.28	945.30	979.90	985.07
May	959.49	948.03	944.74	946.07	971.92	---
Jun	960.59	949.74	946.08	946.70	966.51	---
Jul	960.63	950.13	944.62	945.09	959.44	---
Aug	960.72	949.74	943.91	944.55	955.25	---
Sep	960.36	949.05	944.22	945.16	954.00	---
Oct	961.23	949.88	945.92	946.76	957.56	---
Nov	961.88	950.66	947.62	948.63	976.20	---
Dec	961.56	950.93	948.77	950.20	976.65	986.55
Jan 12	962.29	952.43	950.81	951.89	971.73	986.23
Feb	962.58	953.66	950.83	951.88	993.63	989.09
Mar	963.98	955.00	952.20	953.42	995.52	993.88
Apr	963.26	954.66	952.53	955.32	994.18	992.68
May	963.08	955.17	953.43	957.89	989.88	990.66
Jun	963.48	955.95	954.48	959.25	988.40	989.70
Jul	964.07	957.07	955.13	959.35	986.53	989.47
Aug	964.08	957.24	954.48	958.54	982.95	989.34
Sep	964.36	957.66	954.64	958.17	979.23	988.83
Oct	964.53	957.65	955.01	958.37	977.49	988.68
Nov	964.57	957.70	955.86	959.43	977.90	989.80
Dec	966.85	960.15	957.99	961.11	990.99	991.54
Jan 13	967.70	961.35	959.01	962.77	990.23	991.72
Feb	967.29	961.03	959.27	964.54	993.57	993.78
Mar	966.81	961.02	960.51	970.43	993.38	993.86
Apr	966.88	961.71	961.91	972.78	993.23	994.21
May	968.53	963.81	963.40	973.26	992.76	993.69
Jun	969.56	965.24	964.01	973.54	992.79	993.93
Jul	968.74	964.64	963.48	972.67	991.73	992.70
Aug	968.91	964.98	963.18	971.35	989.71	991.21
Sep	968.95	964.73	962.44	969.41	987.51	990.74
Oct	969.06	964.62	962.58	968.55	986.92	990.61
Nov	969.52	964.88	963.18	968.71	988.27	991.07
Dec	969.47	964.82	963.70	969.62	990.15	991.82
Jan 14	969.59	965.27	964.70	972.00	991.37	992.47
Feb	970.44	966.47	966.65	975.30	996.35	993.52
Mar	970.48	966.94	967.84	978.40	996.68	996.80
Apr	971.51	968.64	969.79	979.80	996.73	996.83
May	973.22	970.76	970.39	979.06	995.25	995.15
Jun	974.31	971.64	970.64	978.70	994.55	994.99
Jul	973.96	971.47	969.85	977.12	992.51	992.94
Aug	973.70	971.05	969.05	975.90	990.64	991.55
Sep	973.86	970.96	968.81	974.84	989.22	990.68
Oct	973.85	970.56	967.88	972.86	985.97	989.95
Nov	973.99	970.20	967.63	971.89	982.93	990.18
Dec	975.70	971.26	969.49	977.05	995.09	995.82

**End-of Month Piezometric Head for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
(elevation in feet, MSL)**

October 2006 through December 2020

Month	Well A1	Well A2	Well A3	Well A4	Well A5	Well A6
Jan 15	975.30	971.09	970.53	979.01	995.18	995.27
Feb	975.29	971.58	971.03	979.26	994.84	995.22
Mar	974.94	971.51	971.14	979.56	995.19	995.41
Apr	975.29	972.20	971.59	979.40	994.29	994.55
May	976.28	973.32	972.37	979.48	994.82	994.71
Jun	975.99	972.87	970.98	977.87	992.41	993.07
Jul	976.65	973.53	971.38	977.04	990.93	991.69
Aug	976.73	973.08	970.06	975.08	988.39	990.44
Sep	976.55	972.33	969.05	973.30	984.20	990.08
Oct	976.24	971.53	968.75	972.95	987.03	991.13
Nov	976.11	971.31	969.33	973.99	989.68	991.99
Dec	976.86	972.04	970.74	976.67	991.81	993.11
Jan 16	977.55	972.83	972.73	980.88	996.05	996.23
Feb	977.24	973.18	973.17	981.40	996.62	996.87
Mar	977.69	974.13	974.02	982.05	997.06	997.13
Apr	977.86	974.80	973.90	981.01	995.25	995.37
May	977.95	974.93	973.31	979.84	993.42	993.85
Jun	977.98	974.64	972.07	978.07	991.67	992.56
Jul	979.27	975.80	972.78	977.29	989.21	990.37
Aug	978.59	974.42	970.65	974.20	---	989.05
Sep	978.33	973.65	969.68	972.29	978.68	988.47
Oct	978.34	973.14	969.41	971.30	976.17	988.20
Nov	978.68	973.05	969.24	970.78	974.79	987.98
Dec	979.35	973.09	969.88	972.42	996.47	995.75
Jan 17	979.75	973.59	972.72	981.34	1001.30	1000.70
Feb	980.53	974.97	974.38	982.64	1008.39	1003.32
Mar	979.46	974.53	974.61	983.52	999.38	999.34
Apr	979.32	975.09	975.18	983.38	998.04	997.87
May	979.61	975.93	975.42	982.96	997.39	997.44
Jun	979.74	976.30	974.74	981.54	995.83	996.06
Jul	979.88	976.46	974.38	980.33	993.42	993.83
Aug	980.24	976.24	973.87	980.01	993.41	994.38
Sep	979.93	976.04	973.85	979.34	992.11	992.69
Oct	979.76	975.85	973.28	978.00	989.75	991.40
Nov	979.45	975.08	971.46	975.81	985.56	990.49
Dec	980.81	975.66	972.07	975.70	983.33	990.23
Jan 18	981.18	975.61	972.93	978.10	992.26	993.09
Feb	980.66	975.04	972.95	978.28	991.72	992.90
Mar	980.67	975.16	973.97	980.17	993.87	994.80
Apr	980.20	975.37	973.50	979.48	992.40	993.54
May	980.19	975.60	973.24	978.44	991.05	992.62
Jun	979.97	975.41	972.78	977.25	989.29	991.77
Jul	980.15	975.20	970.75	974.08	983.37	990.07
Aug	980.75	974.91	969.54	971.73	977.92	988.99
Sep	981.40	974.53	969.23	970.35	974.08	988.39
Oct	980.82	973.28	967.69	968.58	975.71	988.36
Nov	980.30	972.21	967.48	968.57	998.77	990.71
Dec	980.41	971.88	968.64	971.85	990.93	991.99

**End-of Month Piezometric Head for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
(elevation in feet, MSL)**

October 2006 through December 2020

Month	Well A1	Well A2	Well A3	Well A4	Well A5	Well A6
Jan 19	980.38	972.14	970.09	976.90	995.25	995.34
Feb	980.88	973.19	972.42	981.87	1001.23	1000.98
Mar	980.60	973.76	974.18	983.50	1000.47	1000.39
Apr	980.34	974.63	974.86	983.25	999.03	999.22
May	980.60	975.38	974.32	982.08	997.93	998.33
Jun	979.06	974.08	973.22	981.47	996.94	997.15
Jul	979.31	974.64	973.63	981.58	995.83	996.02
Aug	978.96	974.62	973.85	981.35	994.27	994.37
Sep	979.49	975.32	974.00	980.46	991.59	990.87
Oct	978.96	974.78	972.67	978.49	989.78	991.32
Nov	980.60	976.35	973.50	978.80	1001.49	997.13
Dec	981.36	976.52	974.03	981.19	998.48	997.82
Jan 20	980.66	975.68	973.62	981.08	995.94	996.18
Feb	980.88	976.07	974.48	981.99	997.24	997.53
Mar	981.41	976.64	975.85	984.95	1002.98	1002.62
Apr	981.16	976.74	976.85	986.82	1004.39	1004.03
May	980.03	976.55	977.59	987.31	1003.49	1003.31
Jun	979.82	977.08	977.88	987.27	1003.14	1003.10
Jul	981.04	978.80	978.98	987.63	1002.63	1002.62
Aug	981.12	979.14	978.99	987.12	1001.90	1001.95
Sep	981.64	979.69	978.85	986.69	1001.39	1001.46
Oct	982.68	980.63	979.76	986.95	1000.87	1000.97
Nov	982.81	980.53	979.35	986.65	1000.68	1000.71
Dec	983.29	981.04	980.54	988.01	1004.69	1003.46

Notes:

- (1) Data reported as 12:00 PM reading for period December 2006 through September 2010.
- (2) Data reported as daily median value for period October 2010 to present.

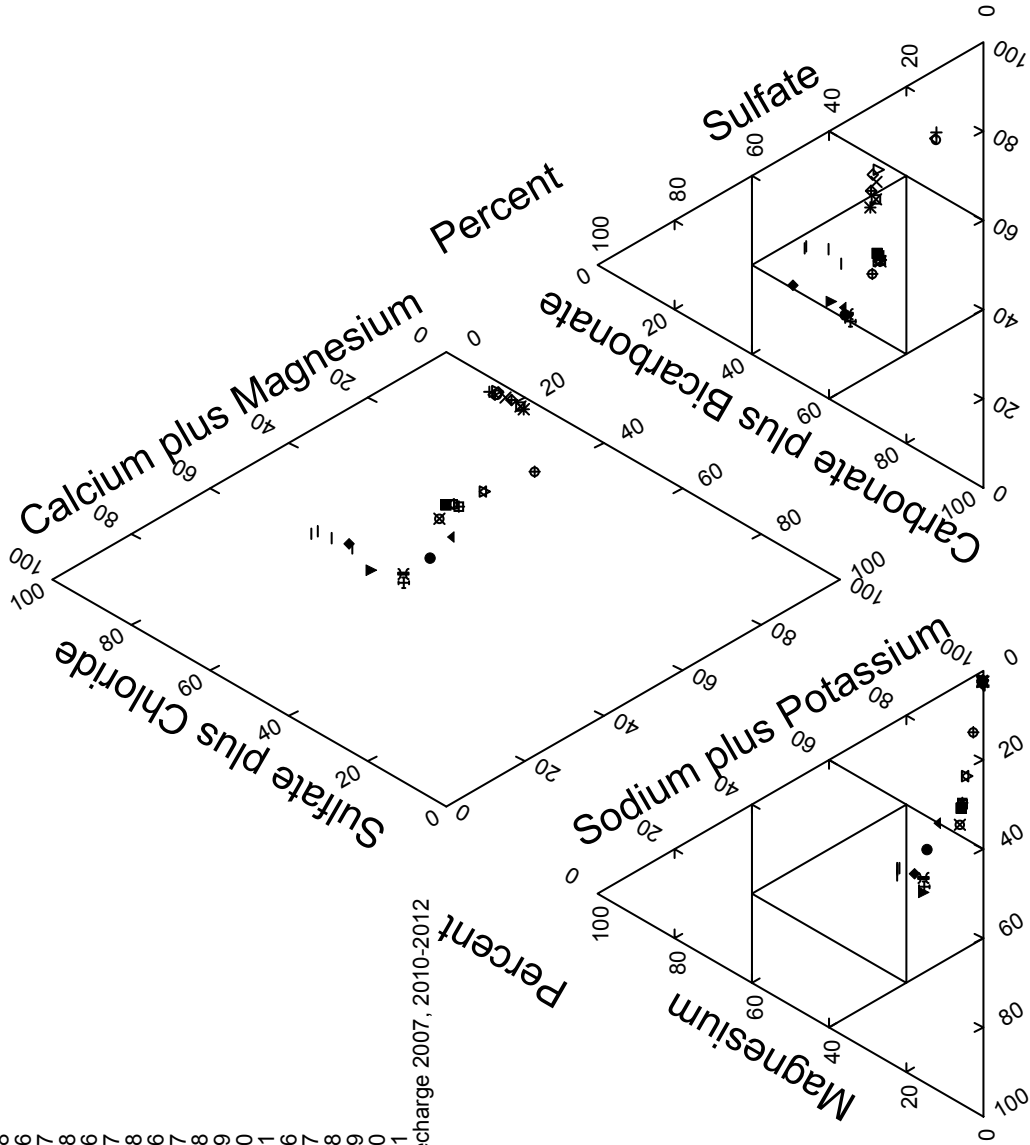
Source: USGS California Water Science Center.

Tri-Linear Diagram

Pala Park Well

Explanation

- A1-2006
- △ A1-2007
- ⊕ A1-2008
- ⊕ A2-2006
- ◇ A2-2007
- ▽ A2-2008
- ⊗ A3-2006
- ◆ A3-2007
- ⊕ A3-2008
- ⊕ A4-2006
- ⊕ A4-2007
- ⊕ A4-2008
- ⊕ A4-2009
- ⊕ A4-2010
- ⊕ A4-2011
- A5-2006
- ◆ A5-2007
- ◆ A5-2008
- ◆ A5-2009
- ◆ A5-2010
- ◆ A5-2011
- VDC Recharge 2007, 2010-2012



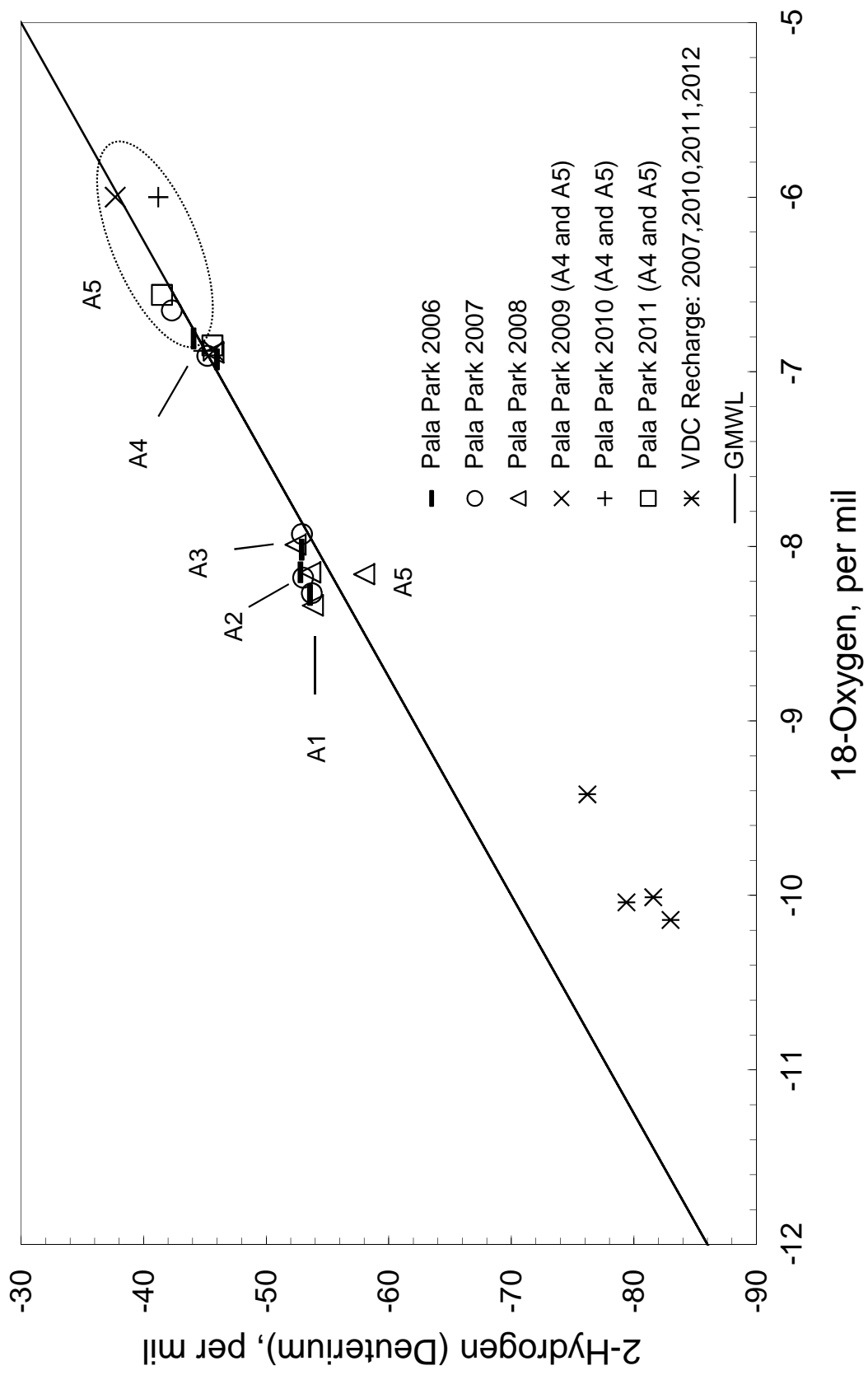
Chloride, Fluoride, Nitrite plus Nitrate
Percent

Calcium

Source: USGS California Water Science

Stable Isotope

Pala Park Monitoring Wells



Source: USGS California Water Science

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006**

Code	Parameter	MCL	Well A1 11/8/2006	Well A2 11/2/2006	Well A3 11/1/2006	Well A4 11/6/2006	Well A5 11/8/2006
	Sampling date						
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		22.3	20.5	21.4	22.9	20.8
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		665	821	750	831	687
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		M	M	M	M	0.00002
300	Dissolved oxygen, water, unfiltered, milligrams per liter		0.40	0.29	0.30	0.53	6.2
400	pH, water, unfiltered, field, standard units		9.4	9.7	9.4	8.6	7.8
403	pH, water, unfiltered, laboratory, standard units		9.5	9.7	9.4	8.6	8
602	Total nitrogen, water, filtered, milligrams per liter			0.08	0.14 E	0.14 E	2.7
607	Organic nitrogen, water, filtered, milligrams per liter			0.041	0.04 E	0.05 E	
608	Ammonia, water, filtered, milligrams per liter as nitrogen		0.028	0.041	0.046	0.041	< 0.020
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		0.010	0.011	0.008	0.004
618	Nitrate, water, filtered, milligrams per liter as nitrogen			0.12	0.04 E	0.04 E	2.59
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen			< 0.06	0.09 E	0.09 E	0.13
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen			2.41	0.05 E	0.05 E	2.60
660	Orthophosphate, water, filtered, milligrams per liter			3.33	1.88	1.88	0.741
666	Phosphorus, water, filtered, milligrams per liter			1.02	1.32	0.67	0.33
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus			0.785	1.08	0.614	0.242
900	Hardness, water, milligrams per liter as calcium carbonate						
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate		8	9	8	57	160
915	Calcium, water, filtered, milligrams per liter		3.14	3.32	2.62	18.7	44.9
925	Magnesium, water, filtered, milligrams per liter		0.106	0.058	0.288	2.45	12.1
930	Sodium, water, filtered, milligrams per liter		127	152	138	145	81.4
931	Sodium adsorption ratio, water, number		19	23	22	8.4	2.8
932	Sodium fraction of cations, water, percent in equivalents of major cations		97	97	97	84	52
935	Potassium, water, filtered, milligrams per liter		0.62	0.96	1.26	2.39	2.10
940	Chloride, water, filtered, milligrams per liter		138	131	112	87.1	40.1
945	Sulfate, water, filtered, milligrams per liter		600	600	600	102	110
950	Fluoride, water, filtered, milligrams per liter		2 (b)	4.56	4.18	1.09	0.38
955	Silica, water, filtered, milligrams per liter		17.3	19.0	14.6	17.2	28.3
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	25.7	20.4	17.1	6.0	2.4
1005	Barium, water, filtered, micrograms per liter	1000 (d)	2.9	2.6	2.3	10.4	31.9
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter		128	138	97	120	150
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300	< 6	3 E	3 E	< 6	< 6
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50	0.5 E	0.7	1.6	7.6	1.7
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter		23.0	16.8	17.8	161	202
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	95.3	127	82.4	54.3	4.1
1130	Lithium, water, filtered, micrograms per liter		4	5	4	7	6
1145	Selenium, micrograms per liter	50 (o)					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006**

Code	Parameter	MCL	Well A1 11/8/2006	Well A2 11/2/2006	Well A3 11/17/2006	Well A4 11/6/2006	Well A5 11/8/2006
	Sampling date						
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter					< 0.01	< 0.01
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					< 0.026	< 0.026
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter					< 0.006	0.036
4036	Prometryn, water, filtered, recoverable, micrograms per liter					< 0.006	< 0.006
4037	Prometon, water, filtered, recoverable, micrograms per liter					< 0.01	< 0.01
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					< 0.014	< 0.014
4095	Fonofos, water, filtered, recoverable, micrograms per liter					< 0.006	< 0.006
7000	Tritium, water, unfiltered, picocuries per liter		-0.19	0.35	0.45	0.58	11.14
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		50	65	74	165	168
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.08	< 0.08
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	0.03 E
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150				< 0.02	< 0.02
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1				< 0.02	< 0.02
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter					< 0.02	< 0.02
34221	Anthracene, water, filtered, recoverable, micrograms per liter					< 0.4	< 0.4
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70				< 0.02	< 0.02
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300				< 0.02	< 0.02
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34409	Isophorone, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34476	Tetrachloroethane, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150				< 0.08	< 0.08
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.06	< 0.06
34501	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	6				< 0.02	< 0.02
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200				< 0.04	< 0.04
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1				< 0.10	< 0.10
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600				< 0.04	< 0.04
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5				< 0.02	< 0.02
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10				< 0.02	< 0.02
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				< 0.1	< 0.1
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter					< 0.14	< 0.14

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006**

Code	Parameter	MCL	Well A1 11/8/2006	Well A2 11/2/2006	Well A3 11/17/2006	Well A4 11/6/2006	Well A5 11/8/2006
	Sampling date						
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.06	< 0.06
38454	Dicropophos, water, filtered, recoverable, micrograms per liter	0.5				< 0.08	< 0.08
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					< 0.01	< 0.01
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					< 0.005	< 0.005
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter, as calcium carbonate			61			
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.1	< 0.1
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5				< 0.02	< 0.02
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					< 0.009	< 0.009
39415	Melolachlor, water, filtered, recoverable, micrograms per liter					< 0.010	< 0.010
39532	Malathion, water, filtered, recoverable, micrograms per liter					< 0.016	< 0.016
39572	Diazinon, water, filtered, recoverable, micrograms per liter					< 0.005	< 0.005
39632	Atrazine, water, filtered, recoverable, micrograms per liter					< 0.007	< 0.007
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
46342	Alachlor, water, filtered, recoverable, micrograms per liter					< 0.005	< 0.005
49260	Acetochlor, water, filtered, recoverable, micrograms per liter					< 0.006	< 0.006
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.09	< 0.09
49933	C-14, water, filtered, percent modern			17.27	13.56	63.16	
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metaixyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					< 0.053	< 0.053
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					< 0.046	< 0.046
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					< 0.03	< 0.03
61593	Iprodione, water, filtered, recoverable, micrograms per liter					< 0.026	< 0.026
61594	Isofenphos, water, filtered, recoverable, micrograms per liter					< 0.011	< 0.011
61596	Metaixyl, water, filtered, recoverable, micrograms per liter					< 0.007	< 0.007
61598	Methidathion, water, filtered, recoverable, micrograms per liter					< 0.009	< 0.009
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					< 0.033	< 0.033
61601	Phosmet, water, filtered, recoverable, micrograms per liter					< 0.008	< 0.008
61610	Tribufos, water, filtered, recoverable, micrograms per liter					< 0.035	< 0.035
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter					< 0.006	< 0.006
61620	2-Ethyl-6-methylamine, water, filtered, recoverable, micrograms per liter					< 0.01	< 0.01
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					< 0.004	< 0.004
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					< 0.005	< 0.005
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.04	< 0.04
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter					< 0.06	< 0.06
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					< 0.02	< 0.02
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					< 0.053	< 0.053
61652	Malaonox, water, filtered, recoverable, micrograms per liter					< 0.04	< 0.04
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					< 0.039	< 0.039
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.02	< 0.02
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.03	< 0.03
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					< 0.05	< 0.05
						< 0.04	< 0.04

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006**

Code	Parameter	MCL	Well A1 11/8/2006	Well A2 11/2/2006	Well A3 11/17/2006	Well A4 11/6/2006	Well A5 11/8/2006
	Sampling date						
61705	Diethoxyethylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monethoxyethylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9, 10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter	6					
63790	Perchlorate, water, filtered, recoverable, micrograms per liter						
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	360	473	416	493	433
70301	Residue, water, filtered, sum of constituents, milligrams per liter		356 E	446 E	404 E	477 E	433
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter, as NH4		0.04	0.05	0.06	0.05	
71851	Nitrate, water, filtered, milligrams per liter	45 (g)			0.184 E	0.174 E	11.5

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006**

Code	Parameter	MCL	Well A1 11/8/2006	Well A2 11/2/2006	Well A3 11/1/2006	Well A4 11/6/2006	Well A5 11/8/2006
	Sampling date						
71856	Nitrite, water, filtered, milligrams per liter			0.032	0.038	0.025	0.012
71865	Iodide, water, filtered, milligrams per liter		0.310	0.517	0.390	0.025	0.003
71870	Bromide, water, filtered, milligrams per liter		0.31	0.42	0.37	0.28	0.06
72019	Depth to water level, feet below land surface		46.61	60.97	70.00	73.36	83.74
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter					<0.6	<0.6
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter					<0.1	<0.1
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		0.58	0.58	0.58	0.58	0.70
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter					0.10	<0.06
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				<0.02	<0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					<0.4	<0.4
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100				<0.04	<0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					<0.06	<0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					<0.1	<0.1
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					<0.1	<0.1
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter					<0.06	<0.06
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					<0.1	<0.1
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					<0.08	<0.08
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter					<0.08	<0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter					<0.40	<0.40
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter					<0.12	<0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter					<0.1	<0.1
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05				<0.04	<0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter					<0.04	<0.04
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter					<0.1	<0.1
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					<0.08	<0.08
81552	Acetone, water, unfiltered, recoverable, micrograms per liter					<0.2	<0.2
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter					<6	<6
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter					<0.02	<0.02
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter					<0.1	<0.1
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter					<0.06	<0.06
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					<0.4	<0.4
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter					<1.6	<1.6
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter					<0.2	<0.2
82081	C-13/C-12 ratio, water, unfiltered, per mil			-16.29		-10.71	<1
82082	Deuterium/Protium ratio, water, unfiltered, per mil			-52.80		-46.00	-44.10
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-8.28	-8.15	-8.02	-6.93	-6.81
82303	Rn-222, water, unfiltered, picocuries per liter						
82346	Ethion, water, filtered, recoverable, micrograms per liter						<0.016
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						<0.5
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						<0.012

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
November 2006**

Code	Parameter	MCL	Well A1 11/8/2006	Well A2 11/2/2006	Well A3 11/17/2006	Well A4 11/6/2006	Well A5 11/8/2006
	Sampling date						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.006	< 0.006
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.009	< 0.009
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.006	< 0.006
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.02	< 0.02
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.008	< 0.008
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.02	< 0.02
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.01	< 0.01
82676	Terbutolol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.01	< 0.01
82680	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.004	< 0.004
82682	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.06	< 0.06
82686	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.003	< 0.003
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.02	< 0.02
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.08	< 0.08
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.01	< 0.01
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		647	820	727	810	674
90851	Triholomethanes, water, unfiltered, calcd, micrograms per liter						M
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery					126	136
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery					89.8	92.5
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery					62.5	62.3
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery					120	119
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery					93.5	99.1

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007**

Code	Parameter	MCL	Well A1 9/27/2007	Well A2 9/20/2007	Well A3 9/25/2007	Well A4 9/25/2007	Well A5 9/20/2007
	Sampling date						
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		25.5	21.0	21.1	21.1	21.0
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		653	789	786	686	685
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		M	M	M	0.00001	0.00001
300	Dissolved oxygen, water, unfiltered, milligrams per liter		< 0.2	< 0.2	0.1	0.1	5.7
400	pH, water, unfiltered, field, standard units		9.5	9.4	9.1	8.3	7.9
403	pH, water, unfiltered, laboratory, standard units		9.6	9.4	9.2	8.3	7.9
602	Total nitrogen, water, filtered, milligrams per liter						
607	Organic nitrogen, water, filtered, milligrams per liter						
608	Ammonia, water, filtered, milligrams per liter as nitrogen		0.026	0.021	0.051	0.031	< 0.020
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.002	< 0.002	< 0.002	< 0.002	0.002
618	Nitrate, water, filtered, milligrams per liter as nitrogen						2.12
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen						
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		< 0.06	< 0.06	< 0.06	< 0.06	2.12
660	Orthophosphate, water, filtered, milligrams per liter		0.066	1.41	6.03	1.02	3.07
666	Phosphorus, water, filtered, milligrams per liter						
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.021	0.459	1.97	0.332	1.00
900	Hardness, water, milligrams per liter as calcium carbonate		10	8	10	89	130
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						
915	Calcium, water, filtered, milligrams per liter		3.87	2.87	3.64	29.5	38.0
925	Magnesium, water, filtered, milligrams per liter		0.029	0.078	0.337	3.56	9.29
930	Sodium, water, filtered, milligrams per liter		132	151	169	116	90.7
931	Sodium adsorption ratio, water, number		18	24	23	5.3	3.4
932	Sodium fraction of cations, water, percent in equivalents of major cations		97	97	97	73	59
935	Potassium, water, filtered, milligrams per liter		0.33	0.76	1.39	2.32	2.58
940	Chloride, water, filtered, milligrams per liter	600	133	131	121	80.8	44.1
945	Sulfate, water, filtered, milligrams per liter	600	33.3	95.2	101	79.9	108
950	Fluoride, water, filtered, milligrams per liter	2 (b)	4.42	3.44	0.92	0.28	0.31
955	Silica, water, filtered, milligrams per liter	10 (c)	18.2	17.6	14.8	17.7	24.3
1000	Arsenic, water, filtered, micrograms per liter	1000 (d)	31.3	18.7	13.1	4.5	4.0
1005	Barium, water, filtered, micrograms per liter		4	3	3	14	22
1010	Beryllium, micrograms per liter	4 (e)	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1020	Boron, water, filtered, micrograms per liter		102	158	147	153	143
1025	Cadmium, micrograms per liter	5 (f)	0.35	0.49	0.31	0.03 E	0.02 E
1030	Chromium, micrograms per liter	50 (g)	0.09 E	0.31	0.2	0.21	1.10
1035	Cobalt, micrograms per liter		< 0.04	< 0.04	0.04 E	0.03 E	0.08
1040	Copper, micrograms per liter	1000 (h)	< 0.4	0.22 E	0.70	0.87	1.70
1046	Iron, water, filtered, micrograms per liter	300	3 E	< 6	10	4 E	< 6
1049	Lead, micrograms per liter		< 0.12	< 0.12	0.08 E	< 0.12	< 0.12
1056	Manganese, water, filtered, micrograms per liter	50	0.4	0.9	2.8	0.7	0.7
1057	Thallium, micrograms per liter	2 (i)	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1060	Molybdenum, micrograms per liter		208	251	208	11.5	6.8
1065	Nickel, micrograms per liter	100 (j)	0.07	0.19	0.46	0.26	0.73
1075	Silver, micrograms per liter	100 (k)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1080	Strontium, water, filtered, micrograms per liter		28.1	17.3	20.3	25.7	201
1085	Vanadium, micrograms per liter		78.6	32.2	7.3	1.1	21.5
1090	Zinc, micrograms per liter	5000 (l)	< 0.6	0.70	0.70	1.0	2.8
1095	Antimony, micrograms per liter	6 (m)	0.06 E	0.11	0.17	0.04 E	0.07
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	43.1	100	139	27.0	3.3
1130	Lithium, water, filtered, micrograms per liter		2.0	4.0	2.7	6.8	5.1
1145	Selenium, micrograms per liter	50 (o)	< 0.08	0.08	0.09	0.05 E	7.5

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007**

Code	Parameter	MCL	Well A1 9/27/2007	Well A2 9/20/2007	Well A3 9/25/2007	Well A4 9/25/2007	Well A5 9/20/2007
	Sampling date						
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter		0.6	0.3	-0.6	0.3	8.3
22703	Uranium, natural, micrograms per liter		0.06	0.13	0.43	2.17	2.16
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		46	58	92	132	158
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.02	< 0.04	< 0.04	< 0.04	0.04 V
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	< 0.02	0.02 V	0.04 E	< 0.02	< 0.02
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.02	0.03 E	0.02 E	< 0.02	< 0.02
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	0.1 E	< 0.1	< 0.1
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	0.6 E	< 0.1	< 0.1
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34476	Tetrachloroethane, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.06	< 0.06	< 0.06	< 0.06
34501	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.02	< 0.04	< 0.04	< 0.04	< 0.04
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.06	< 0.04	< 0.04	< 0.04	< 0.04
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.02	< 0.04	< 0.04	< 0.04	< 0.04
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.04	< 0.04	< 0.04	< 0.04
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007**

Code	Parameter	MCL	Well A1 9/27/2007	Well A2 9/20/2007	Well A3 9/25/2007	Well A4 9/25/2007	Well A5 9/20/2007
	Sampling date						
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.4	< 0.4	< 0.4	< 0.4
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.10	< 0.06	< 0.06	< 0.06	< 0.06
38454	Dicropophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate						
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Methoxychlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342	Alachlor, water, filtered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern		3.44		17.52	67.68	88.09
49934	C-14, counting error, water, filtered, percent modern		0.12		0.22	0.31	0.37
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 0.6	< 0.4	< 0.4	< 0.4	< 0.4
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.04	< 0.04	< 0.04	< 0.04
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metaiaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6	< 0.5	< 0.5	< 1	< 1	< 0.5
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Prothion, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metaiaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylamine, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaaxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007**

Code	Parameter	MCL	Well A1 9/27/2007	Well A2 9/20/2007	Well A3 9/25/2007	Well A4 9/25/2007	Well A5 9/20/2007
	Sampling date						
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-Indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9, 10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter		0.04 E	0.06	0.11	0.04 E	2.21
63790	Perchlorate, water, filtered, recoverable, micrograms per liter		< 0.1	0.7	0.26	< 0.1	0.23
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter		358	460	471	397	429
70301	Residue, water, filtered, sum of constituents, milligrams per liter		354 E	439 E	475 E	410 E	425 E
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter, as NH4		0.03	0.03	0.07	0.04	
71851	Nitrate, water, filtered, milligrams per liter	45 (g)					9.37

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007**

Code	Parameter	MCL	Well A1 9/27/2007	Well A2 9/20/2007	Well A3 9/25/2007	Well A4 9/25/2007	Well A5 9/20/2007
	Sampling date						
71856	Nitrite, water, filtered, milligrams per liter						0.008
71865	Iodide, water, filtered, milligrams per liter						
71870	Bromide, water, filtered, milligrams per liter						
72019	Depth to water level, feet below land surface		0.31	0.40	0.36	0.26	0.12
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1.0	1.0	1.0	1.0	1.0
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		20	21	18	19	21
77041	Carbon disulfide, water, unfiltered, micrograms per liter	6	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77093	dis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.6	< 0.4	< 0.4	< 0.4	< 0.4
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	0.02 E	0.02 E	< 0.04	0.03 E
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.08	< 0.08	< 0.08	< 0.08
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
78109	3-Chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.2	< 0.2	< 0.2	< 0.2
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 4	< 6	< 6	< 6	< 6
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.4	< 0.4	< 0.4	< 0.4
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 1	< 1	< 1	< 1	< 1
82081	C-13/C-12 ratio, water, unfiltered, per mil		-19.11		-14.90	-14.87	-15.57
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-53.70	-53.00	-52.90	-45.20	-42.30
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-8.27	-8.18	-7.93	-6.91	-6.65
82303	Rn-222, water, unfiltered, picocuries per liter		320	270	200	210	280
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
September 2007**

Code	Parameter	MCL	Well A1 9/27/2007	Well A2 9/20/2007	Well A3 9/25/2007	Well A4 9/25/2007	Well A5 9/20/2007
	Sampling date						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbutolol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		667	794	805	694	686
90851	Triholomethanes, water, unfiltered, calcd, micrograms per liter						M
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery		127	130	134	133	131
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery		93.6	95.0	96.8	97.6	93.6
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery		71.0	72.1	73.4	73.9	73.8
99894	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008**

Code	Parameter	MCL	Well A1 4/22/2008	Well A2 4/23/2008	Well A3 4/23/2008	Well A4 4/23/2008	Well A5 4/23/2008
	Sampling date						
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		22.4	24.9	24.4	22.5	20.1
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		656	772	756	670	642
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		M	M	M	0.00001	0.00003 E
300	Dissolved oxygen, water, unfiltered, milligrams per liter						
400	pH, water, unfiltered, field, standard units		9.2	9.3	9.3	8.1	7.6
403	pH, water, unfiltered, laboratory, standard units		9.6	9.5	9.3	8.2	7.7
602	Total nitrogen, water, filtered, milligrams per liter						2.5 E
607	Organic nitrogen, water, filtered, milligrams per liter				0.05 E		
608	Ammonia, water, filtered, milligrams per liter as nitrogen		0.027	0.029	0.045	0.023	< 0.020
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.002	< 0.002	0.002 E	< 0.002	< 0.002
618	Nitrate, water, filtered, milligrams per liter as nitrogen		< 0.14	< 0.14	0.09 E	< 0.14	0.08 E
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		< 0.04	< 0.04	< 0.04	< 0.04	2.41
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen						
660	Orthophosphate, water, filtered, milligrams per liter		0.044	0.071	1.78	0.41	0.533
666	Phosphorus, water, filtered, milligrams per liter		< 0.04	0.24	0.56	0.41	0.17
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.014	0.251	0.579	0.420	0.174
900	Hardness, water, milligrams per liter as calcium carbonate		9 E	7	7	100	160
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						61
915	Calcium, water, filtered, milligrams per liter		3.48	2.60	2.58	33.0	44.2
925	Magnesium, water, filtered, milligrams per liter		0.014 E	0.079	0.180	4.13	13.1
930	Sodium, water, filtered, milligrams per liter		1.19	144	141	94.0	61.8
931	Sodium adsorption ratio, water, number		18 E	24	23	4.1	2.1
932	Sodium fraction of cations, water, percent in equivalents of major cations		97 E	98	97	67	45
935	Potassium, water, filtered, milligrams per liter		0.33	0.72	0.99	2.17	1.99
940	Chloride, water, filtered, milligrams per liter		140	130	118	79.8	36.9
945	Sulfate, water, filtered, milligrams per liter		600	600	600	76.4	141
950	Fluoride, water, filtered, milligrams per liter	2 (b)	4.62	3.39	0.94	0.29	0.39
955	Silica, water, filtered, milligrams per liter		19.3	18.4	14.1	18.1	28.6
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	31.2	19.3	13.1	4.7	1.1
1005	Barium, water, filtered, micrograms per liter	1000 (d)	4.7	4.0	2.3	14.9	40.8
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter		125	130	91	98	120
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300	< 8	9	< 8	5 E	< 8
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50	0.4	1.5	1.0	16.4	0.5
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter		27.3	18.1	19.4	299	226
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	35.6	115	87.8	10.8	1.4 E
1130	Lithium, water, filtered, micrograms per liter		5	5	4	8	6
1145	Selenium, micrograms per liter	50 (o)					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008**

Code	Parameter	MCL	Well A1 4/22/2008	Well A2 4/23/2008	Well A3 4/23/2008	Well A4 4/23/2008	Well A5 4/23/2008
	Sampling date						
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter					< 0.4	< 0.4
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						< 0.2
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter		-0.35	-0.13	0.32	0.26	10.78
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		46	56	68	129	108
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.08	< 0.08
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.02	0.04 E
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150				< 0.02	< 0.02
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1				< 0.02	< 0.02
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
34221	Anthracene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)				< 0.1	< 0.1
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34311	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70				< 0.02	< 0.02
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300				< 0.1	< 0.1
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter					< 0.04	< 0.04
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
34409	Isophorone, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter					M	M
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.1	< 0.1
34443	Naphthalene, water, filtered, recoverable, micrograms per liter					< 0.04	< 0.04
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34466	Phenol, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
34470	Pyrene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34476	Tetrachloroethane, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150				< 0.08	< 0.08
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34501	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	6				< 0.02	< 0.02
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200				< 0.02	< 0.02
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5				< 0.06	< 0.06
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1				< 0.10	< 0.10
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600				< 0.02	< 0.02
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5				< 0.02	< 0.02
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10				< 0.02	< 0.02
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				< 0.1	< 0.1
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				< 0.04	< 0.04
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter					< 0.02	< 0.02
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter					< 0.14	< 0.14

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008**

Code	Parameter	MCL	Well A1 4/22/2008	Well A2 4/23/2008	Well A3 4/23/2008	Well A4 4/23/2008	Well A5 4/23/2008
	Sampling date						
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter					< 0.2	< 0.2
34698	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.10	< 0.10
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.10	< 0.10
38454	Dicropophos, water, filtered, recoverable, micrograms per liter	0.5				< 0.10	< 0.10
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		43	52	68	122	104
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5				< 0.1	< 0.1
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5				< 0.02	< 0.02
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
39415	Metholachlor, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
39532	Malathion, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
39572	Diazinon, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
39632	Atrazine, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		2.91	14.29		69.32	88.12
49933	C-14, water, filtered, percent modern		0.11	0.21		0.35	0.41
49934	C-14, counting error, water, filtered, percent modern					< 0.6	< 0.6
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
50305	Caffeine, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
50359	Metaiaxyl, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	prodione, water, filtered, recoverable, micrograms per liter						
61594	Isfenphos, water, filtered, recoverable, micrograms per liter						
61596	Metaiaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylamine, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaaxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraaxon, water, filtered, recoverable, micrograms per liter						
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008**

Code	Parameter	MCL	Well A1 4/22/2008	Well A2 4/23/2008	Well A3 4/23/2008	Well A4 4/23/2008	Well A5 4/23/2008
	Sampling date						
61705	Diethoxyacetylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
61706	Monethoxyacetylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62005	Cotinine, water, filtered, recoverable, micrograms per liter					< 0.400	< 0.400
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter					< 0.08	< 0.08
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter					< 0.6	< 0.6
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					< 0.16	< 0.16
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter					< 0.08	< 0.08
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					< 0.4	< 0.4
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					< 2	< 2
62070	Camphor, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62071	Carbazole, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					< 0.04	< 0.04
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62076	Indole, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62080	Menthol, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62082	DEET, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter					< 5	< 5
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					< 0.18	< 0.18
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62090	Triclosan, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					< 0.2	< 0.2
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					< 0.1	< 0.1
62166	Fipronil, water, filtered, recoverable, micrograms per liter					< 0.4	< 0.4
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter	6					
63790	Perchlorate, water, filtered, recoverable, micrograms per liter						
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	356	437	430	407	429
70301	Residue, water, filtered, sum of constituents, milligrams per liter		347 E	419	412 E	383 E	402 E
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter, as NH4		0.04	0.04	0.06	0.03	
71851	Nitrate, water, filtered, milligrams per liter	45 (g)					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008**

Code	Parameter	MCL	Well A1 4/22/2008	Well A2 4/23/2008	Well A3 4/23/2008	Well A4 4/23/2008	Well A5 4/23/2008
	Sampling date						
71856	Nitrite, water, filtered, milligrams per liter				0.006 E		
71865	Iodide, water, filtered, milligrams per liter		0.399	0.666	0.489	0.025	0.005
71870	Bromide, water, filtered, milligrams per liter		0.33	0.40	0.38	0.27	0.06
72019	Depth to water level, feet below land surface		53.42	72.96	83.30	86.32	66.09
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter					< 0.6	< 0.6
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		0.58	0.58	0.58	0.58	0.64
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter					< 0.06	< 0.06
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				< 0.02	< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.6	< 0.6
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100				< 0.04	< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.12	< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05				< 0.04	< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter					< 0.04	< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.08	< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.4	< 0.4
81552	Acetone, water, unfiltered, recoverable, micrograms per liter					< 4	< 4
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.02	< 0.02
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.06	< 0.06
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter					< 0.2	< 0.2
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 1.6	< 1.6
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter					< 0.2	< 0.2
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter					< 1	< 1
82081	C-13/C-12 ratio, water, unfiltered, per mil		-19.70	-16.90		-14.89	-16.88
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-53.80	-53.60	-52.40	-45.70	-58.00
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-8.34	-8.15	-7.99	-6.89	-8.16
82303	Rn-222, water, unfiltered, picocuries per liter						
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						
82630	Metribuzin, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
April 2008**

Code	Parameter	MCL	Well A1 4/22/2008	Well A2 4/23/2008	Well A3 4/23/2008	Well A4 4/23/2008	Well A5 4/23/2008
	Sampling date						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Tribufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter						
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		645	757	732	668	< 0.08 631
90851	Triholomethanes, water, unfiltered, calcd, micrograms per liter						M
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery					129	130
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery					90.9	91.5
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery					78.9	75.6
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2009**

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4 8/4/2009	Well A5 8/4/2009
3	Sampling date						
10	Temperature, water, degrees Celsius					20.8	19
28	Agency analyzing sample, code					80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius					660	601
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter					0.00001	0.00002
300	Dissolved oxygen, water, unfiltered, milligrams per liter						
400	pH, water, unfiltered, field, standard units					8.1	7.7
403	pH, water, unfiltered, laboratory, standard units					8.2	7.7
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter					151	148
602	Total nitrogen, water, filtered, milligrams per liter						2.9 E
607	Organic nitrogen, water, filtered, milligrams per liter						0.07 E
608	Ammonia, water, filtered, milligrams per liter as nitrogen					0.024	0.01 E
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)				< 0.002	< 0.002
618	Nitrate, water, filtered, milligrams per liter as nitrogen						
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen					< 0.1	0.08 E
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen					< 0.04	2.86
660	Orthophosphate, water, filtered, milligrams per liter					1.28	0.870
666	Phosphorus, water, filtered, milligrams per liter					0.41	0.29
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus					0.419	0.284
900	Hardness, water, milligrams per liter as calcium carbonate					110	170
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						44
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						38
915	Calcium, water, filtered, milligrams per liter					38.4	48.3
925	Magnesium, water, filtered, milligrams per liter					4.54	10.8
930	Sodium, water, filtered, milligrams per liter					86.2	55.0
931	Sodium adsorption ratio, water, number					3.5	1.9
932	Sodium fraction of cations, water, percent in equivalents of major cations					62	42
935	Potassium, water, filtered, milligrams per liter					1.98	1.86
940	Chloride, water, filtered, milligrams per liter	600				78.5	35.1
945	Sulfate, water, filtered, milligrams per liter	600				76.3	103
950	Fluoride, water, filtered, milligrams per liter	2 (b)				0.23	0.21
955	Silica, water, filtered, milligrams per liter	10 (c)				18.5	26.6
1000	Arsenic, water, filtered, micrograms per liter	1000 (d)				4.7	1.4
1005	Barium, water, filtered, micrograms per liter	4 (e)				21.0	49.7
1010	Beryllium, micrograms per liter						
1020	Boron, water, filtered, micrograms per liter					105	128
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300				5	< 4
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50				20.3	< 0.2
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter						
1080	Strontium, water, filtered, micrograms per liter	100 (k)				343	257
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)				6.6	< 4
1130	Lithium, water, filtered, micrograms per liter					7	7

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A 1-6)
August 2009**

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
1145	Selenium, micrograms per liter						
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter	50 (o)					
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter						
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate					129	127
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter						
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter						
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5					
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter						
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter						
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter						
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter	150					
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	1					
34030	Benzene, water, unfiltered, recoverable, micrograms per liter						
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34248	Benzol[a]pyrene, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70					
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter						
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300					
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter						
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter						
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter						
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5					
34476	Tetrachloroethane, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200					
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1					
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600					
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5					
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10					
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A 1-6)
August 2009**

Code	Sampling date	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
34696		Naphthalene, water, unfiltered, recoverable, micrograms per liter						
34699		trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
34704		cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
38454		Dicofthos, water, filtered, recoverable, micrograms per liter						
38775		Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933		Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086		Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate	0.5					121
39175		Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	5				124	
39180		Trichloroethene, water, unfiltered, recoverable, micrograms per liter						
39381		Dieldrin, water, filtered, recoverable, micrograms per liter						
39415		Metalachlor, water, filtered, recoverable, micrograms per liter						
39532		Malathion, water, filtered, recoverable, micrograms per liter						
39572		Diazinon, water, filtered, recoverable, micrograms per liter						
39632		Atrazine, water, filtered, recoverable, micrograms per liter						
39702		Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342		Alachlor, water, filtered, recoverable, micrograms per liter						
49260		Acetochlor, water, filtered, recoverable, micrograms per liter						
49295		1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933		C-14, water, filtered, percent modern						
49934		C-14, counting error, water, filtered, percent modern						
49991		Methyl acrylate, water, unfiltered, recoverable, micrograms per liter						
49999		1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50000		1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50002		Bromoethene, water, unfiltered, recoverable, micrograms per liter						
50004		tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter						
50005		Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter						
50305		Caffeine, water, filtered, recoverable, micrograms per liter						
50359		Metaxyl, water, filtered, recoverable, micrograms per liter						
61209		Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61588		Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586		Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591		Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593		Iprodione, water, filtered, recoverable, micrograms per liter						
61594		Isofenphos, water, filtered, recoverable, micrograms per liter						
61596		Metaxyl, water, filtered, recoverable, micrograms per liter						
61598		Methidathion, water, filtered, recoverable, micrograms per liter						
61599		Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601		Phosmet, water, filtered, recoverable, micrograms per liter						
61610		Tribuphos, water, filtered, recoverable, micrograms per liter						
61618		2-Chloro-2,6-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620		2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625		3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633		4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635		Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636		Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644		Ethion monooxon, water, filtered, recoverable, micrograms per liter						
61645		Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646		Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652		Malaoxon, water, filtered, recoverable, micrograms per liter						
61664		Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666		Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668		Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674		Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705		Diethoxydiphenol, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A 1-6)
August 2009**

Code	Sampling date	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
61706		Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					8/4/2009	8/4/2009
62005		Cotinine, water, filtered, recoverable, micrograms per liter						
62054		1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055		2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056		2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057		3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62059		3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62060		4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061		4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062		4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063		5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064		Acetophenone, water, filtered, recoverable, micrograms per liter						
62065		Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066		9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067		Benzophenone, water, filtered, recoverable, micrograms per liter						
62068		beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070		Camphor, water, filtered, recoverable, micrograms per liter						
62071		Carbazole, water, filtered, recoverable, micrograms per liter						
62072		Cholesterol, water, filtered, recoverable, micrograms per liter						
62073		D-Limonene, water, filtered, recoverable, micrograms per liter						
62075		Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076		Indole, water, filtered, recoverable, micrograms per liter						
62077		Isoborneol, water, filtered, recoverable, micrograms per liter						
62078		Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079		Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080		Menthol, water, filtered, recoverable, micrograms per liter						
62081		Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082		DEET, water, filtered, recoverable, micrograms per liter						
62083		Diethoxyphenol, water, filtered, recoverable, micrograms per liter						
62084		p-Cresol, water, filtered, recoverable, micrograms per liter						
62085		4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086		beta-Stigmasterol, water, filtered, recoverable, micrograms per liter						
62087		Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088		Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089		Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090		Triclosan, water, filtered, recoverable, micrograms per liter						
62091		Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092		Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093		Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166		Fipronil, water, filtered, recoverable, micrograms per liter						
62167		Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168		Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169		Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170		Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854		Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter	6					
63790		Pechlorate, water, filtered, recoverable, micrograms per liter	1500					
70300		Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter					389	396
70301		Residue, water, filtered, sum of constituents, milligrams per liter					381	368 E
70303		Residue, water, filtered, tons per acre-foot					0.03	0.01 E
71846		Ammonia, water, filtered, milligrams per liter as NH4	45 (g)					
71851		Nitrate, water, filtered, milligrams per liter						
71856		Nitrite, water, filtered, milligrams per liter						
71865		Iodide, water, filtered, milligrams per liter					0.035	0.004

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A 1-6)
August 2009**

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date						8/4/2009
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter						
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius					676	611
90851	Triholometanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes:

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
July 2010**

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4 7/26/2010	Well A5 7/26/2010
3	Sampling date						
10	Temperature, water, degrees Celsius					22.5	19.5
28	Agency analyzing sample, code					80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius					670	720
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter					0.00001	0.00003
300	Dissolved oxygen, water, unfiltered, milligrams per liter						
400	pH, water, unfiltered, field, standard units					8.0	7.6
403	pH, water, unfiltered, laboratory, standard units					8.2	7.6
405	Carbon dioxide, water, unfiltered, milligrams per liter					2.2	9.1
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter					149	224
602	Total nitrogen, water, filtered, milligrams per liter					< 0.14	3.8 E
607	Organic nitrogen, water, filtered, milligrams per liter					< 0.08	< 0.09
608	Ammonia, water, filtered, milligrams per liter as nitrogen					0.025	< 0.020
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)				0.001 E	0.001 E
618	Nitrate, water, filtered, milligrams per liter as nitrogen					< 0.039	3.66 E
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen					< 0.10	0.09 E
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen					< 0.04	3.66
660	Orthophosphate, water, filtered, milligrams per liter					1.10	4.36
666	Phosphorus, water, filtered, milligrams per liter					0.35	1.40
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus					1.40	1.42
900	Hardness, water, milligrams per liter as calcium carbonate					0.359	1.42
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate					104	211
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						27
915	Calcium, water, filtered, milligrams per liter					34.5	61.4
925	Magnesium, water, filtered, milligrams per liter					4.18	14.0
930	Sodium, water, filtered, milligrams per liter					96.8	74.3
931	Sodium adsorption ratio, water, number					4.14	2.23
932	Sodium fraction of cations, water, percent in equivalents of major cations					67	43
935	Potassium, water, filtered, milligrams per liter					2.03	2.34
940	Chloride, water, filtered, milligrams per liter					83.9	39.5
945	Sulfate, water, filtered, milligrams per liter					79.9	114
950	Fluoride, water, filtered, milligrams per liter					0.26	0.12
955	Silica, water, filtered, milligrams per liter					16.9	28.4
1000	Arsenic, water, filtered, micrograms per liter					4.6	2.8
1005	Barium, water, filtered, micrograms per liter					19.4	54.0
1010	Beryllium, micrograms per liter						
1020	Boron, water, filtered, micrograms per liter					106	145
1025	Cadmium, micrograms per liter						
1030	Chromium, micrograms per liter						
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter						
1046	Iron, water, filtered, micrograms per liter					6 E	< 6
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter					20.0	< 0.2
1057	Thallium, micrograms per liter						
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter						
1075	Silver, micrograms per liter						
1080	Strontium, water, filtered, micrograms per liter					309	344
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter						
1095	Antimony, micrograms per liter						
1106	Aluminum, water, filtered, micrograms per liter					12.5	2.4

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
July 2010**

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
1130	Lithium, water, filtered, micrograms per liter						
1145	Selenium, micrograms per liter	50 (o)				7	7
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter						
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate					128	190
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter						
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter						
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5					
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter						
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter						
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter						
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter						
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150					
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1					
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
34221	Antracene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34248	Benz[a]pyrene, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70					
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter						
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300					
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter						
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter						
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter						
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200					
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1					
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600					
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5					
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10					
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A 1-6)
July 2010**

Code	Sampling date	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
34668		Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter						7/26/2010
34696		Naphthalene, water, unfiltered, recoverable, micrograms per liter						
34699		trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
34704		cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
38454		Dicropthos, water, filtered, recoverable, micrograms per liter						
38775		Dichlorvos, water, filtered, recoverable, micrograms per liter						
39033		Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086		Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate					124	185
39175		Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5					
39180		Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5					
39381		Dieldrin, water, filtered, recoverable, micrograms per liter						
39415		Melolachlor, water, filtered, recoverable, micrograms per liter						
39532		Malathion, water, filtered, recoverable, micrograms per liter						
39572		Diazinon, water, filtered, recoverable, micrograms per liter						
39632		Atrazine, water, filtered, recoverable, micrograms per liter						
39702		Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342		Alechlor, water, filtered, recoverable, micrograms per liter						
49260		Acetochlor, water, filtered, recoverable, micrograms per liter						
49295		1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933		C-14, water, filtered, percent modern						
49934		C-14, counting error, water, filtered, percent modern						
49991		Methyl acrylate, water, unfiltered, recoverable, micrograms per liter						
49999		1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50000		Bromoethene, water, unfiltered, recoverable, micrograms per liter						
50002		1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50004		tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter						
50005		Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter						
50305		Caffeine, water, filtered, recoverable, micrograms per liter						
50359		Metaxyl, water, filtered, recoverable, micrograms per liter						
61209		Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585		Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586		Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591		Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593		Iprodione, water, filtered, recoverable, micrograms per liter						
61594		Isofenphos, water, filtered, recoverable, micrograms per liter						
61598		Metaxyl, water, filtered, recoverable, micrograms per liter						
61598		Methidathion, water, filtered, recoverable, micrograms per liter						
61599		Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601		Phosmet, water, filtered, recoverable, micrograms per liter						
61610		Tribuphos, water, filtered, recoverable, micrograms per liter						
61618		2-Chloro-2,6-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620		2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625		3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633		4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635		Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636		Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644		Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645		Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646		Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652		Malaoxon, water, filtered, recoverable, micrograms per liter						
61664		Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666		Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668		Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674		Terbutos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
July 2010**

Code	Sampling date	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
61705		Dithoxyoctylphenol, water, filtered, recoverable, micrograms per liter						7/26/2010
61706		Monooctyloxyphenol, water, filtered, recoverable, micrograms per liter						
62005		Cotinine, water, filtered, recoverable, micrograms per liter						
62054		1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055		2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056		2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62058		3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059		3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060		4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061		4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062		4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063		5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064		Acetophenone, water, filtered, recoverable, micrograms per liter						
62065		Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066		9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067		Benzophenone, water, filtered, recoverable, micrograms per liter						
62068		beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070		Camphor, water, filtered, recoverable, micrograms per liter						
62071		Carbazole, water, filtered, recoverable, micrograms per liter						
62072		Cholesterol, water, filtered, recoverable, micrograms per liter						
62073		D-Limonene, water, filtered, recoverable, micrograms per liter						
62075		Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076		Indole, water, filtered, recoverable, micrograms per liter						
62077		Isoborneol, water, filtered, recoverable, micrograms per liter						
62078		Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079		Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080		Menthol, water, filtered, recoverable, micrograms per liter						
62081		Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082		DEET, water, filtered, recoverable, micrograms per liter						
62083		Dithoxyonylphenol, water, filtered, recoverable, micrograms per liter						
62084		p-Cresol, water, filtered, recoverable, micrograms per liter						
62085		4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086		beta-Stigmasterol, water, filtered, recoverable, micrograms per liter						
62087		Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088		Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089		Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090		Triclosan, water, filtered, recoverable, micrograms per liter						
62091		Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092		Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093		Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166		Fipronil, water, filtered, recoverable, micrograms per liter						
62167		Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168		Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169		Desulfinyfipronil amide, water, filtered, recoverable, micrograms per liter						
62170		Desulfinyfipronil, water, filtered, recoverable, micrograms per liter						
62854		Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter	6					
63790		Perchlorate, water, filtered, recoverable, micrograms per liter	1500					
70300		Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter					379	465
70301		Residue, water, filtered, sum of constituents, milligrams per liter					395 E	466 E
70303		Residue, water, filtered, tons per acre-foot						
71846		Ammonia, water, filtered, milligrams per liter as NH4						
71851		Nitrate, water, filtered, milligrams per liter	45 (g)					
71856		Nitrite, water, filtered, milligrams per liter						
							0.032	< 0.026
							< 0.173	16.2 E
							0.003 E	0.003 E

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
July 2010**

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
71865	Sampling date						7/26/2010
71870	Iodide, water, filtered, milligrams per liter					0.025	0.002
72019	Bromide, water, filtered, milligrams per liter					0.26	0.09
73547	Depth to water level, feet below land surface						
73570	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter						
75985	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
76002	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter						
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100					
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter						
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter						
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter						
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter						
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter						
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter						
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter						
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter						
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter						
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter						
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter	0.05					
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter						
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter						
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81552	Acetone, water, unfiltered, recoverable, micrograms per liter						
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter						
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter						
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter						
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter						
82081	C-13/C-12 ratio, water, unfiltered, per mil						
82082	Deuterium/Protium ratio, water, unfiltered, per mil						
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil						
82303	Rn-222, water, unfiltered, picocuries per liter					-44.90	-41.20
82346	Ethion, water, filtered, recoverable, micrograms per liter					-6.86	-6.76
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylamine, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A 1-6)
July 2010**

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
	Sampling date						7/26/2010
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methy parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benflurin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propylamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter					679	737
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius						
90851	Triholomethanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011**

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
3	Sampling date						8/22/2011
10	Temperature, water, degrees Celsius					22.8	19.8
28	Agency analyzing sample, code					80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius					670	647
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter					0.00001	0.00002
300	Dissolved oxygen, water, unfiltered, milligrams per liter						
400	pH, water, unfiltered, field, standard units					8.0	7.7
403	pH, water, unfiltered, laboratory, standard units					8.2	7.8
405	Carbon dioxide, water, unfiltered, milligrams per liter					2.4	6.3
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter					147	195
602	Total nitrogen, water, filtered, milligrams per liter					<0.07	3.6
607	Organic nitrogen, water, filtered, milligrams per liter					<0.02	0.05
608	Ammonia, water, filtered, milligrams per liter as nitrogen					0.031	0.011
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)				<0.001	<0.001
618	Nitrate, water, filtered, milligrams per liter as nitrogen					<0.020	3.52
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen					<0.05	0.06
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen					<0.02	3.52
660	Orthophosphate, water, filtered, milligrams per liter					0.57	1.74
666	Phosphorus, water, filtered, milligrams per liter					0.17	0.54
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus					0.186	0.569
900	Hardness, water, milligrams per liter as calcium carbonate					107	178
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						
915	Calcium, water, filtered, milligrams per liter					35.3	50.6
925	Magnesium, water, filtered, milligrams per liter					4.43	12.4
930	Sodium, water, filtered, milligrams per liter					95.0	67.5
931	Sodium adsorption ratio, water, number					4.01	2.20
932	Sodium fraction of cations, water, percent in equivalents of major cations					66	45
935	Potassium, water, filtered, milligrams per liter					2.01	2.14
940	Chloride, water, filtered, milligrams per liter	600				79.5	35.0
945	Sulfate, water, filtered, milligrams per liter	600				76.7	98.0
950	Fluoride, water, filtered, milligrams per liter	2 (b)				0.22	0.16
955	Silica, water, filtered, milligrams per liter					17.2	29.4
1000	Arsenic, water, filtered, micrograms per liter	10 (c)				3.6	2.0
1005	Barium, water, filtered, micrograms per liter	1000 (d)				20.0	45.9
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter					100	131
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300				3.3	3.7
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50				21.6	<0.16
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter					321	295
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)				5.5	1.8

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011**

Code	Sampling date	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
1130	Lithium, water, filtered, micrograms per liter						8.15	7.16
1145	Selenium, micrograms per liter		50 (o)					
4022	Terbuthylazine, water, filtered, recoverable, micrograms per liter							
4025	Hexazinone, water, filtered, recoverable, micrograms per liter							
4029	Bromacil, water, filtered, recoverable, micrograms per liter							
4035	Simazine, water, filtered, recoverable, micrograms per liter							
4036	Prometryn, water, filtered, recoverable, micrograms per liter							
4037	Prometon, water, filtered, recoverable, micrograms per liter							
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter							
4095	Fonofos, water, filtered, recoverable, micrograms per liter							
7000	Tritium, water, unfiltered, picocuries per liter							
22703	Uranium, natural, micrograms per liter						118	153
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate							
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter							
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter							
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter		0.5					
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter							
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter							
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter							
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter							
34010	Toluene, water, unfiltered, recoverable, micrograms per liter		150					
34030	Benzene, water, unfiltered, recoverable, micrograms per liter		1					
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter							
34221	Anthracene, water, filtered, recoverable, micrograms per liter		0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter							
34248	Benz[a]pyrene, water, filtered, recoverable, micrograms per liter							
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter		70					
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter							
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter		300					
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter							
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter							
34409	Isophorone, water, filtered, recoverable, micrograms per liter							
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter							
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter							
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter		5					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter							
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter							
34466	Phenol, water, filtered, recoverable, micrograms per liter							
34470	Pyrene, water, filtered, recoverable, micrograms per liter							
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter		5					
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter							
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter		150					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		5					
34501	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		6					
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter		200					
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter		5					
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		1					
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		600					
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		5					
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter		10					
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		5					
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter							
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		5					
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter							

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011**

Code	Sampling date	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
34668		Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter						8/22/2011
34696		Naphthalene, water, unfiltered, recoverable, micrograms per liter						
34699		trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
34704		cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
38454		Dicropthos, water, filtered, recoverable, micrograms per liter						
38775		Dichlorvos, water, filtered, recoverable, micrograms per liter						
39033		Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086		Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate					122	161
39175		Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5					
39180		Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5					
39381		Dieldrin, water, filtered, recoverable, micrograms per liter						
39415		Melolachlor, water, filtered, recoverable, micrograms per liter						
39532		Malathion, water, filtered, recoverable, micrograms per liter						
39572		Diazinon, water, filtered, recoverable, micrograms per liter						
39632		Atrazine, water, filtered, recoverable, micrograms per liter						
39702		Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342		Alechlor, water, filtered, recoverable, micrograms per liter						
49260		Acetochlor, water, filtered, recoverable, micrograms per liter						
49295		1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933		C-14, water, filtered, percent modern						
49934		C-14, counting error, water, filtered, percent modern						
49991		Methyl acrylate, water, unfiltered, recoverable, micrograms per liter						
49999		1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50000		1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50002		Bromoethene, water, unfiltered, recoverable, micrograms per liter						
50004		tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter						
50005		Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter						
50305		Caffeine, water, filtered, recoverable, micrograms per liter						
50359		Metaxyl, water, filtered, recoverable, micrograms per liter						
61209		Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585		Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586		Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591		Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593		Iprodione, water, filtered, recoverable, micrograms per liter						
61594		Isofenphos, water, filtered, recoverable, micrograms per liter						
61598		Metaxyl, water, filtered, recoverable, micrograms per liter						
61599		Metidathion, water, filtered, recoverable, micrograms per liter						
61599		Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601		Phosmet, water, filtered, recoverable, micrograms per liter						
61610		Tribuphos, water, filtered, recoverable, micrograms per liter						
61618		2-Chloro-2,6-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620		2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625		3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633		4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635		Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636		Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644		Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645		Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646		Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652		Malaoxon, water, filtered, recoverable, micrograms per liter						
61664		Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666		Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668		Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674		Terbutos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011**

Code	Sampling date	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
61705		Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						8/22/2011
61706		Monooctyloxyphenol, water, filtered, recoverable, micrograms per liter						
62005		Cotinine, water, filtered, recoverable, micrograms per liter						
62054		1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055		2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056		2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62058		3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059		3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060		4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061		4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062		4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063		5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064		Acetophenone, water, filtered, recoverable, micrograms per liter						
62065		Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066		9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067		Benzophenone, water, filtered, recoverable, micrograms per liter						
62068		beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070		Camphor, water, filtered, recoverable, micrograms per liter						
62071		Carbazole, water, filtered, recoverable, micrograms per liter						
62072		Cholesterol, water, filtered, recoverable, micrograms per liter						
62073		D-Limonene, water, filtered, recoverable, micrograms per liter						
62075		Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076		Indole, water, filtered, recoverable, micrograms per liter						
62077		Isoborneol, water, filtered, recoverable, micrograms per liter						
62078		Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079		Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080		Menthol, water, filtered, recoverable, micrograms per liter						
62081		Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082		DEET, water, filtered, recoverable, micrograms per liter						
62083		Diethoxyphenol, water, filtered, recoverable, micrograms per liter						
62084		p-Cresol, water, filtered, recoverable, micrograms per liter						
62085		4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086		beta-Stigmasterol, water, filtered, recoverable, micrograms per liter						
62087		Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088		Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089		Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090		Triclosan, water, filtered, recoverable, micrograms per liter						
62091		Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092		Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093		Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166		Fipronil, water, filtered, recoverable, micrograms per liter						
62167		Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168		Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169		Desulfinyfipronil, water, filtered, recoverable, micrograms per liter						
62170		Desulfinyfipronil, water, filtered, recoverable, micrograms per liter						
62854		Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter	6					
63790		Perchlorate, water, filtered, recoverable, micrograms per liter						
70300		Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500				418	412
70301		Residue, water, filtered, sum of constituents, milligrams per liter					385	410
70303		Residue, water, filtered, tons per acre-foot						
71846		Ammonia, water, filtered, milligrams per liter as NH4					0.040	0.015
71851		Nitrate, water, filtered, milligrams per liter	45 (g)				< 0.089	15.6
71856		Nitrite, water, filtered, milligrams per liter					< 0.003	< 0.003

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011**

Code	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
71865	Sampling date					8/22/2011	8/22/2011
71870	Iodide, water, filtered, milligrams per liter					0.021	0.002
72019	Bromide, water, filtered, milligrams per liter					0.267	0.069
73547	Depth to water level, feet below land surface						
73570	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter						
75985	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
76002	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter						
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100					
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter						
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter						
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter						
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter						
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter						
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter						
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter						
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter						
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter						
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter						
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter	0.05					
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter						
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter						
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81552	Acetone, water, unfiltered, recoverable, micrograms per liter						
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter						
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter						
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter						
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter						
82081	C-13/C-12 ratio, water, unfiltered, per mil						
82082	Deuterium/Protium ratio, water, unfiltered, per mil						
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil						
82303	Rn-222, water, unfiltered, picocuries per liter						
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylamine, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
						-45.61	-41.48
						-6.85	-6.56

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Pala Park Well (8S/2W-19A1-6)
August 2011**

Code	Sampling date	Parameter	MCL	Well A1	Well A2	Well A3	Well A4	Well A5
82662		Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						8/22/2011
82664		Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667		Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670		Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673		Benflurin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675		Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676		Propylzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680		Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682		DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683		Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686		Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687		cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795		m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter					653	634
90095		Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius						
90851		Triholomethanes, water, unfiltered, calcd, micrograms per liter						
99583		Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584		Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585		Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586		Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832		1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833		Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834		1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994		Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995		alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

APPENDIX C-2

WOLF VALLEY GROUNDWATER MONITORING WELL

Site Description

Wolf Valley Groundwater Monitoring Well (8S/2W-20J1-2)

LOCATION: Latitude 33° 27' 47.53", longitude 117° 06' 15.58" (NAD83) in Riverside County, California. Well is located southeast of Temecula in Wolf Valley, adjacent to the north side of Wolf Valley Road, approximately 1,670 feet east of Pala-Temecula Highway.

SITE INFORMATION: Land-surface altitude is 1078.78 feet above mean sea level (NAVD88).

WATER-LEVEL RECORD:

State well number	USGS station number	Intermittent water-level	Daily water-level
8S/2W-20J1	332747117061101	03/05/1990 to present	10/18/2006 to present
8S/2W-20J2	332747117061102	03/05/1990 to present	10/23/2010 to present

TOPOGRAPHIC MAP: USGS Pechanga, California, 7.5 minute series.

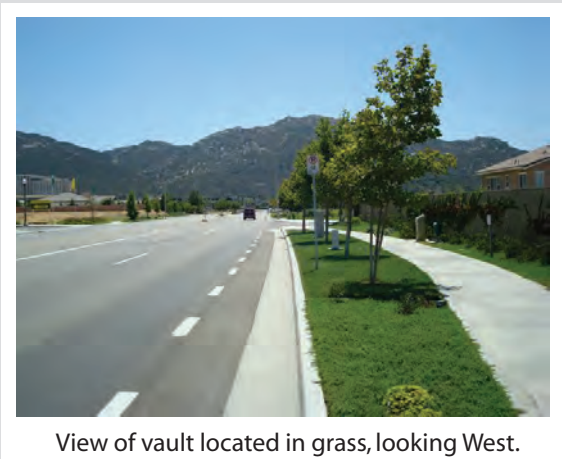
WELL SUMMARY INFORMATION:

State well number	USGS station number	Hole depth (ft)	Perforation depth (ft)	Casing size and type	Date drilled
8S/2W-20J1	332747117061101	590	555-575	2" PVC	2/17/1990
8S/2W-20J2	332747117061102	590	160-180	2" PVC	2/18/1990

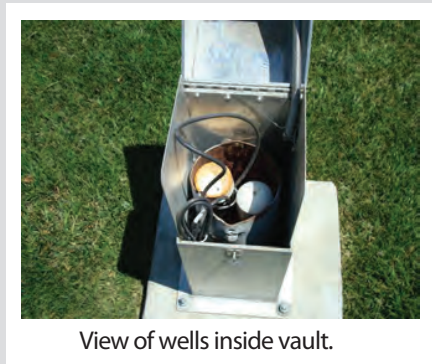
ADDITIONAL INFORMATION:

Additional information can be found at the following web site:
<http://ca.water.usgs.gov/temecula/>.

WELL CONSTRUCTION
MONITORING WELLS WV5-20J1 and WV5-20J2



View of vault located in grass, looking West.



View of wells inside vault.

Drill method: hydraulic mud rotary

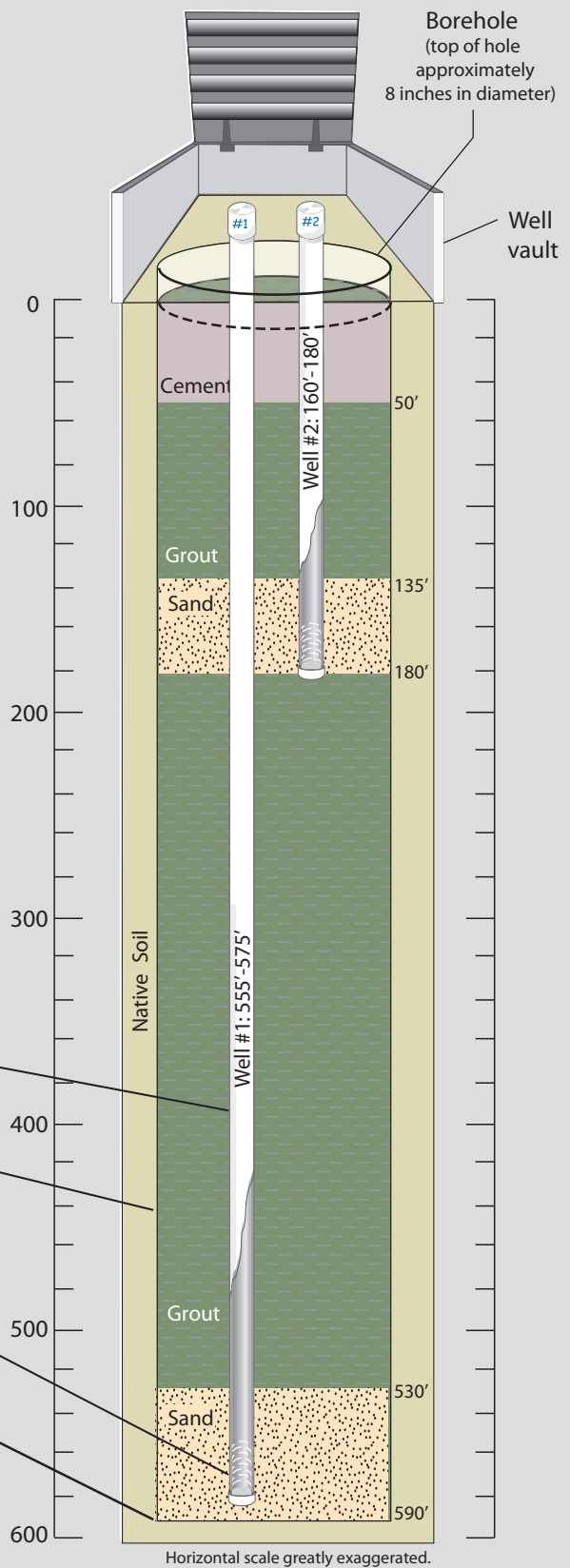
Well casing
(2 inches in diameter)

Borehole
(bottom of hole
approximately
8 inches in diameter)

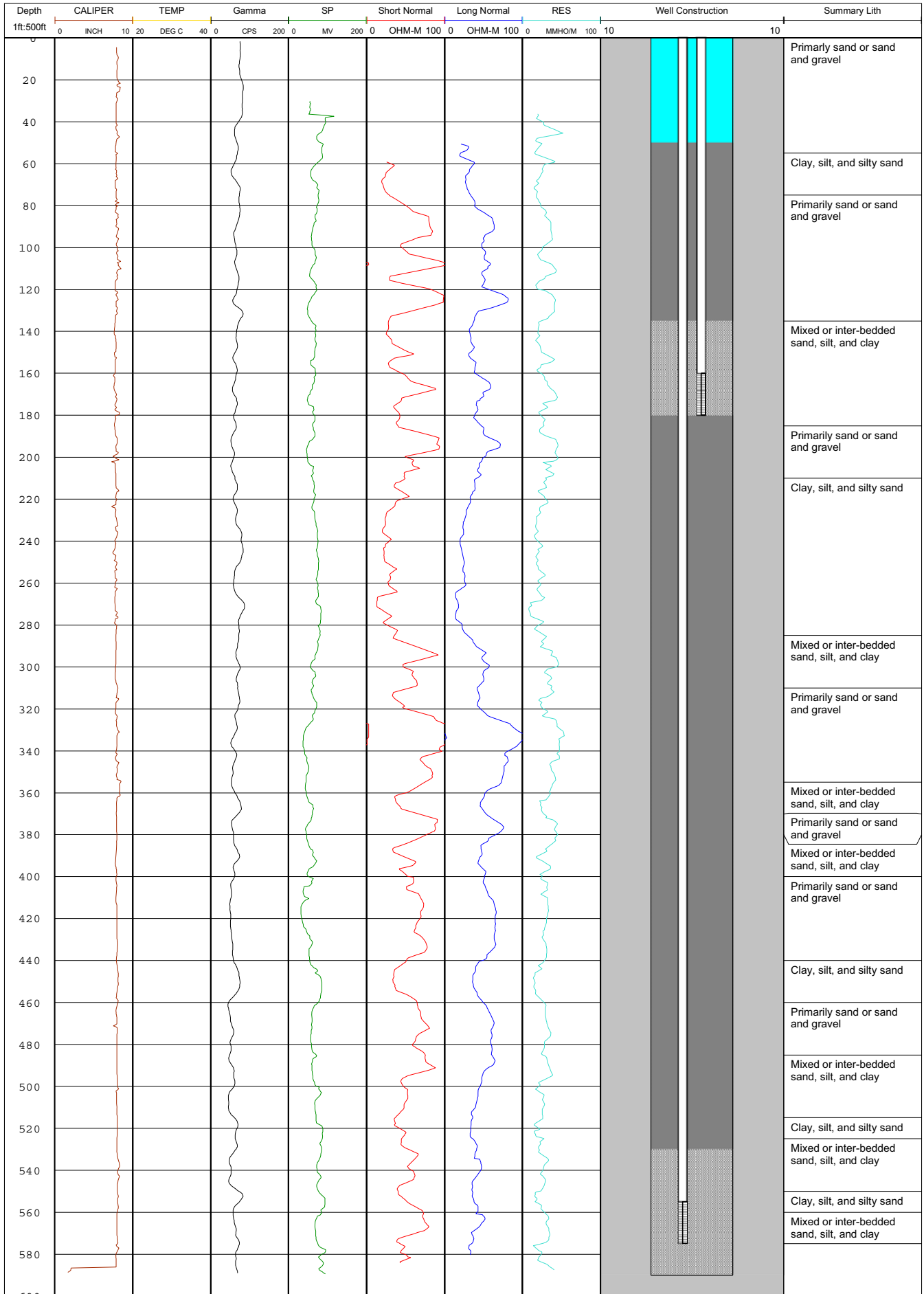
Well screen
(0.020 x 1.5 inch slots)

Total Depth: 590 feet

DEPTH, IN FEET BELOW LAND SURFACE



Source: USGS California Water Science

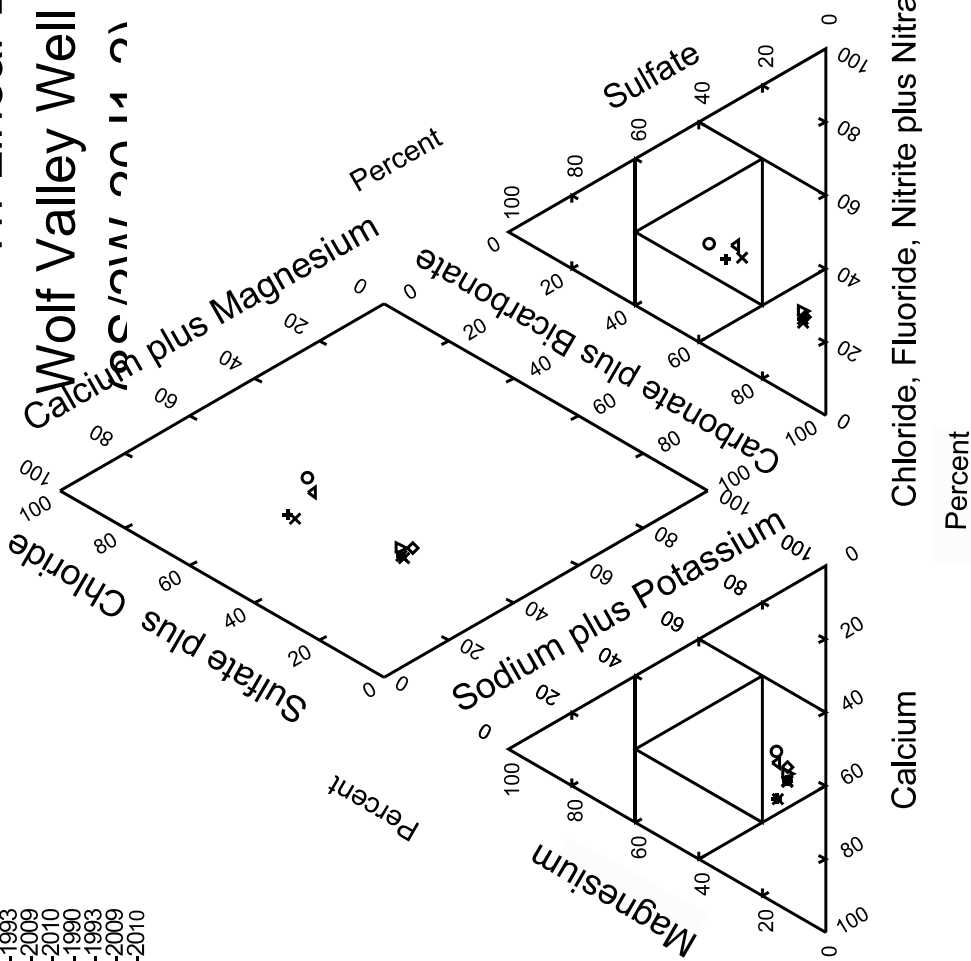


Tri-Linear Diagram

Wolf Valley Well

010101010101010101

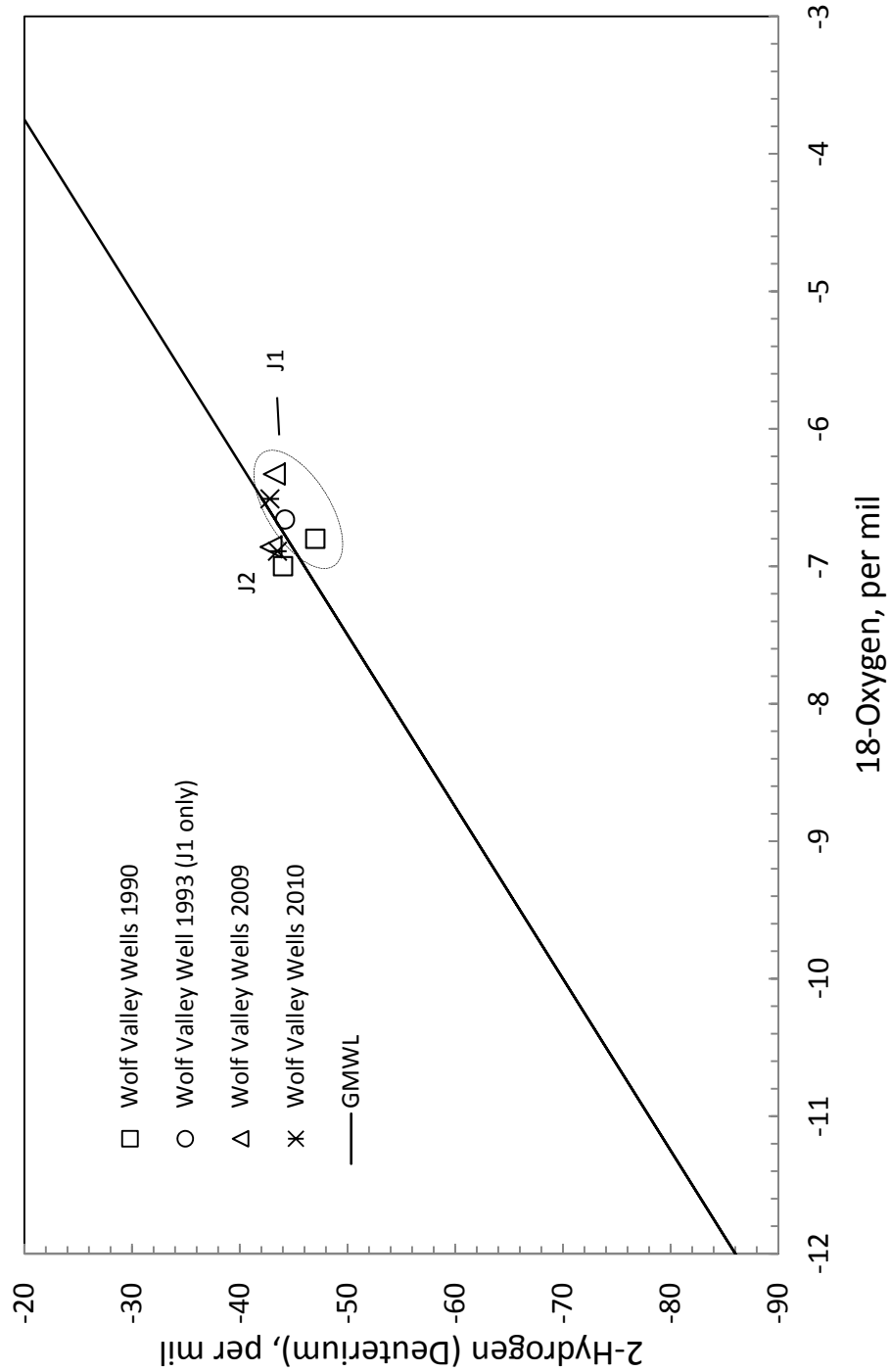
- Explanation
- J1-1990
 - △ J1-1993
 - ✦ J1-2009
 - ✦ J1-2010
 - ◇ J2-1990
 - ▽ J2-1993
 - ✦ J2-2009
 - J2-2010



Source: USGS California Water

Stable Isotope Diagram

Wolf Valley Monitoring Wells



Source: USGS California Water Science Center.

**Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)**

March 1990 through December 2020

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Mar 5 1990	73.70	1005.08	Mar 5 1990	62.47	1016.31
Mar 15 1990	73.93	1004.85	Mar 15 1990	62.41	1016.37
May 3 1990			May 3 1990	62.21	1016.57
May 18 1990	72.93	1005.85			
Jul 3 1990	72.52	1006.26	Jul 3 1990	61.88	1016.90
Aug 2 1990	72.44	1006.34	Aug 2 1990	61.80	1016.98
Aug 15 1990	72.28	1006.50	Aug 15 1990	61.65	1017.13
Oct 31 1990	72.03	1006.75	Oct 31 1990	61.32	1017.46
Nov 14 1990	71.86	1006.92	Nov 14 1990	61.23	1017.55
Nov 29 1990	71.84	1006.94	Nov 29 1990	61.20	1017.58
Dec 10 1990	71.69	1007.09	Dec 10 1990	61.13	1017.65
Dec 19 1990			Dec 19 1990	61.12	1017.66
Jan 18 1991	71.48	1007.30	Jan 18 1991	61.06	1017.72
Jan 22 1991	71.43	1007.35	Jan 22 1991	61.05	1017.73
Jan 24 1991			Jan 24 1991	61.09	1017.69
Feb 6 1991	71.43	1007.35	Feb 6 1991	61.03	1017.75
Feb 22 1991	71.47	1007.31	Feb 22 1991	61.05	1017.73
Mar 6 1991	70.81	1007.97	Mar 6 1991	61.03	1017.75
Apr 12 1991	69.62	1009.16	Apr 12 1991	60.64	1018.14
Apr 26 1991			Apr 26 1991	60.50	1018.28
May 24 1991	69.40	1009.38	May 24 1991	60.43	1018.35
May 30 1991	69.43	1009.35	May 30 1991	60.38	1018.40
Jun 13 1991	69.62	1009.16	Jun 13 1991	60.40	1018.38
Jul 31 1991	69.76	1009.02	Jul 31 1991	60.35	1018.43
Aug 20 1991	69.76	1009.02	Aug 20 1991	60.29	1018.49
Nov 8 1991	70.15	1008.63	Nov 8 1991	60.49	1018.29
Nov 26 1991	70.17	1008.61	Nov 26 1991	60.57	1018.21
Dec 12 1991	70.28	1008.50	Dec 12 1991	60.67	1018.11
Jan 10 1992	70.03	1008.75	Jan 10 1992	60.68	1018.10
Jan 27 1992	70.01	1008.77	Jan 27 1992	60.74	1018.04
Feb 7 1992	69.81	1008.97	Feb 7 1992	60.73	1018.05
Feb 23 1992			Feb 23 1992	60.65	1018.13
Feb 28 1992	68.56	1010.22	Feb 28 1992		
Mar 13 1992	69.30	1009.48	Mar 13 1992	60.61	1018.17
Apr 10 1992	68.90	1009.88	Apr 10 1992	60.47	1018.31
May 1 1992	68.87	1009.91	May 1 1992	60.39	1018.39
May 28 1992	68.84	1009.94	May 28 1992	60.33	1018.45
Jun 19 1992	69.05	1009.73	Jun 19 1992	60.33	1018.45
Jul 15 1992	69.44	1009.34	Jul 15 1992	60.42	1018.36
Jul 23 1992	69.41	1009.37	Jul 23 1992	60.46	1018.32
Sep 1 1992	69.77	1009.01	Sep 1 1992	60.61	1018.17
Sep 17 1992	69.86	1008.92	Sep 17 1992	60.67	1018.11
Oct 15 1992	70.26	1008.52	Oct 15 1992	60.93	1017.85
Nov 17 1992	70.08	1008.70	Nov 17 1992	60.85	1017.93
Dec 30 1992	69.85	1008.93	Dec 30 1992	60.95	1017.83

**Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)**

March 1990 through December 2020

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Mar 16 1993	63.73	1015.05	Mar 16 1993	58.84	1019.94
Mar 22 1993	63.61	1015.17	Mar 22 1993	58.58	1020.20
Apr 13 1993	63.65	1015.13	Apr 13 1993	57.55	1021.23
Apr 22 1993	63.74	1015.04	Apr 22 1993	57.15	1021.63
Jul 1 1994	62.34	1016.44	Jul 1 1994		
Jul 28 1994	62.55	1016.23	Jul 28 1994		
Aug 17 1994	65.62	1013.16	Aug 17 1994		
Sep 1 1994	66.45	1012.33	Sep 1 1994		
Oct 3 1994	65.90	1012.88	Oct 3 1994		
Nov 1 1994	66.99	1011.79	Nov 1 1994		
Dec 6 1994	63.50	1015.28	Dec 6 1994		
Jan 4 1995	64.40	1014.38	Jan 4 1995		
Feb 7 1995	64.18	1014.60	Feb 7 1995		
Jul 21 1995	72.10	1006.68	Jul 21 1995		
Aug 11 1995	73.65	1005.13	Aug 11 1995		
Sep 5 1995	73.00	1005.78	Sep 5 1995		
Oct 3 1995	72.00	1006.78	Oct 3 1995		
Nov 3 1995	74.02	1004.76	Nov 3 1995		
Dec 4 1995	67.87	1010.91	Dec 4 1995		
Jan 3 1996	69.95	1008.83	Jan 3 1996		
Feb 8 1996	67.85	1010.93	Feb 8 1996		
Mar 18 1996	66.94	1011.84	Mar 18 1996		
Apr 15 1996	72.15	1006.63	Apr 15 1996		
May 1 1996	73.02	1005.76	May 1 1996		
Jun 3 1996	74.82	1003.96	Jun 3 1996		
Jul 10 1996	68.73	1010.05	Jul 10 1996		
Aug 2 1996	71.06	1007.72	Aug 2 1996		
Sep 3 1996	76.29	1002.49	Sep 3 1996		
Oct 18 1996	70.85	1007.93	Oct 18 1996	48.14	1030.64
Nov 4 1996	71.23	1007.55	Nov 4 1996	48.35	1030.43
Dec 3 1996	75.12	1003.66	Dec 3 1996	48.21	1030.57
Jan 24 1997	69.65	1009.13	Jan 24 1997	48.72	1030.06
Feb 19 1997	75.90	1002.88	Feb 19 1997	48.63	1030.15
Mar 13 1997	81.92	996.86	Mar 13 1997	48.99	1029.79
Apr 9 1997	83.98	994.80	Apr 9 1997	49.62	1029.16
May 5 1997	87.42	991.36	May 5 1997	50.33	1028.45
Jun 2 1997	81.72	997.06	Jun 2 1997	51.06	1027.72
Jul 21 1997	86.62	992.16	Jul 21 1997	51.95	1026.83
Aug 15 1997	91.15	987.63	Aug 15 1997	52.58	1026.20
Sep 9 1997	87.44	991.34	Sep 9 1997	52.67	1026.11
Oct 16 1997	84.70	994.08	Oct 16 1997	53.58	1025.20
Nov 7 1997	91.69	987.09	Nov 7 1997	53.87	1024.91
Dec 12 1997	86.83	991.95	Dec 12 1997	54.82	1023.96

**Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)**

March 1990 through December 2020

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Jan 23 1998	92.59	986.19	Jan 23 1998	55.23	1023.55
Mar 2 1998	86.91	991.87	Mar 2 1998	55.80	1022.98
Apr 8 1998	80.32	998.46	Apr 8 1998	55.09	1023.69
May 1 1998	91.32	987.46	May 1 1998	54.99	1023.79
Jun 2 1998	86.85	991.93	Jun 2 1998	55.38	1023.40
Jul 2 1998	87.34	991.44	Jul 2 1998	55.59	1023.19
Aug 11 1998	95.88	982.90	Aug 11 1998	56.08	1022.70
Sep 10 1998	92.12	986.66	Sep 10 1998	56.83	1021.95
Oct 16 1998	92.14	986.64	Oct 16 1998	57.39	1021.39
Nov 23 1998	100.48	978.30	Nov 23 1998	57.68	1021.10
Dec 7 1998	103.96	974.82	Dec 7 1998	57.95	1020.83
Jan 5 1999	107.46	971.32	Jan 5 1999	58.41	1020.37
Feb 1 1999	111.16	967.62	Feb 1 1999	59.07	1019.71
Mar 1 1999	102.08	976.70	Mar 1 1999	59.73	1019.05
Apr 8 1999	111.12	967.66	Apr 8 1999	60.67	1018.11
May 3 1999	119.83	958.95	May 3 1999		
Jun 10 1999	106.93	971.85	Jun 10 1999	62.43	1016.35
Jul 1 1999	111.31	967.47	Jul 1 1999	62.71	1016.07
Aug 3 1999	113.81	964.97	Aug 3 1999	63.75	1015.03
Sep 8 1999	113.84	964.94	Sep 8 1999	65.02	1013.76
Oct 15 1999	119.21	959.57	Oct 15 1999	65.73	1013.05
Nov 12 1999	116.71	962.07	Nov 12 1999	66.63	1012.15
Dec 14 1999	108.04	970.74	Dec 14 1999	66.94	1011.84
Jan 6 2000	109.89	968.89	Jan 6 2000	67.48	1011.30
Feb 9 2000	132.67	946.11	Feb 9 2000	67.99	1010.79
Mar 13 2000	121.62	957.16	Mar 13 2000	68.27	1010.51
Apr 3 2000	129.77	949.01	Apr 3 2000	68.94	1009.84
May 9 2000	143.04	935.74	May 9 2000	69.66	1009.12
Jun 5 2000	150.23	928.55	Jun 5 2000	70.35	1008.43
Jul 6 2000	134.48	944.30	Jul 6 2000	71.36	1007.42
Aug 1 2000	135.96	942.82	Aug 1 2000	71.74	1007.04
Sep 6 2000	135.44	943.34	Sep 6 2000	72.77	1006.01
Oct 4 2000	134.43	944.35	Oct 4 2000	72.36	1006.42
Nov 7 2000	153.91	924.87	Nov 7 2000	73.74	1005.04
Dec 6 2000	146.64	932.14	Dec 6 2000	74.68	1004.10
Jan 4 2001	143.95	934.83	Jan 4 2001	75.26	1003.52
Feb 1 2001	132.28	946.50	Feb 1 2001	75.66	1003.12
Mar 13 2001	124.13	954.65	Mar 13 2001	75.94	1002.84
Apr 6 2001	129.01	949.77	Apr 6 2001	76.32	1002.46
May 4 2001	130.43	948.35	May 4 2001	76.64	1002.14
Jun 7 2001	135.71	943.07	Jun 7 2001	76.81	1001.97
Jul 3 2001	137.36	941.42	Jul 3 2001	77.23	1001.55
Aug 2 2001	140.92	937.86	Aug 2 2001	77.96	1000.82
Sep 6 2001	158.00	920.78	Sep 6 2001	78.55	1000.23
Oct 3 2001	152.81	925.97	Oct 3 2001	78.94	999.84
Nov 1 2001	151.35	927.43	Nov 1 2001	79.48	999.30
Dec 5 2001	143.25	935.53	Dec 5 2001	80.14	998.64

**Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)**

March 1990 through December 2020

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Jan 4 2002	143.98	934.80	Jan 4 2002	80.69	998.09
Feb 13 2002	150.03	928.75	Feb 13 2002	81.22	997.56
Mar 5 2002	147.77	931.01	Mar 5 2002	81.47	997.31
Apr 2 2002	152.97	925.81	Apr 2 2002	82.04	996.74
May 1 2002	150.81	927.97	May 1 2002	82.23	996.55
Jun 3 2002	155.46	923.32	Jun 3 2002	82.63	996.15
Jul 2 2002	158.38	920.40	Jul 2 2002	83.15	995.63
Aug 1 2002	162.28	916.50	Aug 1 2002	83.44	995.34
Sep 3 2002	159.45	919.33	Sep 3 2002	83.88	994.90
Oct 3 2002	160.66	918.12	Oct 3 2002	84.35	994.43
Nov 1 2002	162.89	915.89	Nov 1 2002	84.83	993.95
Dec 2 2002	156.42	922.36	Dec 2 2002	85.20	993.58
Jan 10 2003	155.53	923.25	Jan 10 2003	85.75	993.03
Feb 4 2003	164.96	913.82	Feb 4 2003	86.02	992.76
Mar 3 2003	155.96	922.82	Mar 3 2003	86.33	992.45
Apr 2 2003	159.33	919.45	Apr 2 2003	86.72	992.06
May 1 2003	158.53	920.25	May 1 2003	86.98	991.80
Jun 2 2003	149.29	929.49	Jun 2 2003	87.22	991.56
Jul 7 2003	143.93	934.85	Jul 7 2003	87.60	991.18
Aug 1 2003	141.10	937.68	Aug 1 2003	87.79	990.99
Sep 2 2003	136.78	942.00	Sep 2 2003	88.02	990.76
Oct 3 2003	134.60	944.18	Oct 3 2003	88.15	990.63
Nov 3 2003	133.73	945.05	Nov 3 2003	88.33	990.45
Dec 5 2003	139.10	939.68	Dec 5 2003	88.40	990.38
Jan 15 2004	129.79	948.99	Jan 15 2004	88.51	990.27
Feb 12 2004	125.73	953.05	Feb 12 2004	88.70	990.08
Mar 8 2004	123.92	954.86	Mar 8 2004	88.62	990.16
Apr 13 2004	123.18	955.60	Apr 13 2004	88.61	990.17
May 10 2004	141.40	937.38	May 10 2004	88.82	989.96
Jun 1 2004	150.23	928.55	Jun 1 2004	88.68	990.10
Jul 1 2004	149.29	929.49	Jul 1 2004	88.93	989.85
Aug 2 2004	158.11	920.67	Aug 2 2004	89.15	989.63
Sep 1 2004	165.49	913.29	Sep 1 2004	89.40	989.38
Oct 1 2004	166.51	912.27	Oct 1 2004	89.69	989.09
Nov 3 2004	161.96	916.82	Nov 3 2004	89.87	988.91
Dec 8 2004	156.68	922.10	Dec 8 2004	90.29	988.49
Jan 4 2005	152.09	926.69	Jan 4 2005	90.31	988.47
Feb 4 2005	147.52	931.26	Feb 4 2005	90.28	988.50
Mar 2 2005	137.32	941.46	Mar 2 2005	90.02	988.76
Apr 8 2005	143.64	935.14	Apr 8 2005	89.22	989.56
May 9 2005	145.00	933.78	May 9 2005	88.24	990.54
Jun 9 2005	168.88	909.90	Jun 9 2005	87.40	991.38
Jul 11 2005	161.44	917.34	Jul 11 2005	86.73	992.05
Aug 2 2005	161.15	917.63	Aug 2 2005	86.31	992.47
Sep 2 2005	144.41	934.37	Sep 2 2005	85.83	992.95
Oct 7 2005	145.01	933.77	Oct 7 2005	85.22	993.56
Nov 4 2005	140.62	938.16	Nov 4 2005	84.82	993.96
Dec 9 2005	132.75	946.03	Dec 9 2005	84.31	994.47

**Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)**

March 1990 through December 2020

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Jan 11 2006	128.07	950.71	Jan 11 2006	83.96	994.82
Feb 10 2006	141.72	937.06	Feb 10 2006	83.74	995.04
Mar 7 2006	129.78	949.00	Mar 7 2006	83.45	995.33
Apr 7 2006	123.89	954.89	Apr 7 2006	83.21	995.57
May 5 2006	133.10	945.68	May 5 2006	82.92	995.86
Jun 1 2006	126.68	952.10	Jun 1 2006	82.56	996.22
Jul 6 2006	142.38	936.40	Jul 6 2006	82.18	996.60
Aug 3 2006	145.94	932.84	Aug 3 2006	82.01	996.77
Sep 7 2006	156.98	921.80	Sep 7 2006	81.75	997.03
Sep 26 2006	157.61	921.17	Sep 26 2006		
Oct 13 2006	157.53	921.25	Oct 13 2006	81.70	997.08
Nov 7 2006	158.94	919.84	Nov 7 2006	81.71	997.07
Nov 17 2006	160.83	917.95	Nov 17 2006		
Dec 7 2006	178.24	900.54	Dec 7 2006	81.81	996.97
Dec 21 2006	161.13	917.65	Dec 21 2006		
Jan 3 2007	158.33	920.45	Jan 3 2007	81.96	996.82
Feb 2 2007	167.16	911.62	Feb 2 2007	82.13	996.65
Mar 7 2007	159.04	919.74	Mar 7 2007	82.21	996.57
Apr 5 2007	170.12	908.66	Apr 5 2007	82.21	996.57
Apr 5 2007	169.77	909.01	Apr 5 2007		
Apr 6 2007	167.92	910.86	Apr 6 2007		
Apr 9 2007	167.88	910.90	Apr 9 2007		
May 1 2007	171.87	906.91	May 1 2007	82.20	996.58
Jun 1 2007	156.08	922.70	Jun 1 2007	82.21	996.57
Jul 10 2007	164.26	914.52	Jul 10 2007		
Jul 11 2007			Jul 11 2007	82.19	996.59
Aug 6 2007	168.06	910.72	Aug 6 2007	82.12	996.66
Sep 14 2007	174.97	903.81	Sep 14 2007	82.37	996.41
Oct 3 2007	173.28	905.50	Oct 3 2007	82.36	996.42
Nov 7 2007	180.53	898.25	Nov 7 2007	82.63	996.15
Dec 4 2007	179.45	899.33	Dec 4 2007	82.67	996.11

**Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)**

March 1990 through December 2020

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Jan 15 2008	163.43	915.35	Jan 15 2008	82.97	995.81
Feb 21 2008	164.67	914.11	Feb 21 2008		
Mar 12 2008	169.01	909.77	Mar 12 2008	83.08	995.70
Apr 9 2008	167.88	910.90	Apr 9 2008		
Apr 18 2008	178.07	900.71	Apr 18 2008	83.16	995.62
May 1 2008	177.39	901.39	May 1 2008	83.22	995.56
May 6 2008	169.97	908.81	May 6 2008		
May 28 2008	175.04	903.74	May 28 2008		
May 30 2008	174.62	904.16	May 30 2008		
Jun 2 2008	165.15	913.63	Jun 2 2008		
Jun 3 2008	173.91	904.87	Jun 3 2008	83.14	995.64
Jun 12 2008	174.22	904.56	Jun 12 2008		
Jul 2 2008	166.87	911.91	Jul 2 2008	83.29	995.49
Jul 30 2008	168.32	910.46	Jul 30 2008	83.37	995.41
Aug 8 2008	171.04	907.74	Aug 8 2008		
Sep 4 2008	171.07	907.71	Sep 4 2008	83.43	995.35
Oct 2 2008	172.10	906.68	Oct 2 2008	83.54	995.24
Nov 4 2008	173.31	905.47	Nov 4 2008	83.69	995.09
Dec 3 2008	169.48	909.30	Dec 3 2008	83.80	994.98
Jan 6 2009	159.51	919.27	Jan 6 2009	83.94	994.84
Jan 29 2009	157.55	921.23	Jan 29 2009	83.97	994.81
Mar 4 2009	157.14	921.64	Mar 4 2009	84.12	994.66
Apr 2 2009	165.09	913.69	Apr 2 2009	84.08	994.70
May 6 2009	169.97	908.81	May 6 2009	84.10	994.68
Jun 2 2009	165.15	913.63	Jun 2 2009	84.10	994.68
Jun 24 2009	177.81	900.97	Jun 24 2009	84.44	994.34
Aug 4 2009	167.70	911.08	Aug 4 2009	84.61	994.17
Aug 4 2009	167.36	911.42	Aug 4 2009		
Aug 27 2009	165.44	913.34	Aug 27 2009	84.65	994.13
Oct 2 2009	158.97	919.81	Oct 2 2009	84.82	993.96
Nov 3 2009	152.46	926.32	Nov 3 2009	84.76	994.02
Nov 30 2009	148.13	930.65	Nov 30 2009		
Jan 5 2010	141.72	937.06	Jan 5 2010	84.66	994.12
Feb 4 2010	135.75	943.03	Feb 4 2010	84.56	994.22
Mar 2 2010	129.56	949.22	Mar 2 2010	84.19	994.59
Mar 31 2010	135.54	943.24	Mar 31 2010	83.83	994.95
May 5 2010	135.05	943.73	May 5 2010	83.51	995.27
Jun 2 2010	136.83	941.95	Jun 2 2010	83.25	995.53
Jun 30 2010	136.29	942.49	Jun 30 2010	83.00	995.78
Jul 28 2010	138.64	940.14	Jul 28 2010	82.96	995.82
Aug 23 2010	138.86	939.92	Aug 23 2010	82.81	995.97
Sep 30 2010	141.18	937.60	Sep 30 2010	82.69	996.09
Oct 31 2010	131.83	946.95	Oct 31 2010	82.59	996.19
Nov 30 2010	128.89	949.89	Nov 30 2010	82.51	996.27
Dec 31 2010	122.00	956.78	Dec 31 2010	82.40	996.38

**Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)**

March 1990 through December 2020

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Jan 31 2011	122.34	956.44	Jan 31 2011	81.96	996.82
Feb 28 2011	115.97	962.81	Feb 28 2011	81.59	997.19
Mar 31 2011	111.73	967.05	Mar 31 2011	80.81	997.97
Apr 30 2011	114.10	964.68	Apr 30 2011	80.14	998.64
May 31 2011	108.96	969.82	May 31 2011	79.43	999.35
Jun 30 2011	115.91	962.87	Jun 30 2011	78.67	1000.11
Jul 31 2011	126.74	952.04	Jul 31 2011	78.31	1000.47
Aug 31 2011	121.32	957.46	Aug 31 2011	78.02	1000.76
Sep 30 2011	112.47	966.31	Sep 30 2011	77.45	1001.33
Oct 28 2011	106.64	972.14	Oct 28 2011	76.89	1001.89
Nov 30 2011	99.89	978.89	Nov 30 2011	75.83	1002.95
Dec 31 2011	95.89	982.89	Dec 31 2011	75.06	1003.72
Jan 31 2012	100.27	978.51	Jan 31 2012	74.45	1004.33
Feb 29 2012	102.56	976.22	Feb 29 2012	74.12	1004.66
Mar 31 2012	95.82	982.96	Mar 31 2012	73.43	1005.35
Apr 30 2012	94.62	984.16	Apr 30 2012	72.93	1005.85
May 31 2012	97.42	981.36	May 31 2012	72.19	1006.59
Jun 30 2012	95.64	983.14	Jun 30 2012	71.72	1007.06
Jul 31 2012	100.16	978.62	Jul 31 2012	71.40	1007.38
Aug 31 2012	100.80	977.98	Aug 31 2012	71.21	1007.57
Sep 30 2012	101.82	976.96	Sep 30 2012	71.09	1007.69
Oct 28 2012	101.44	977.34	Oct 28 2012	70.97	1007.81
Nov 30 2012	93.16	985.62	Nov 30 2012	70.50	1008.28
Dec 31 2012	94.90	983.88	Dec 31 2012	70.45	1008.33
Jan 31 2013	96.72	982.06	Jan 31 2013	70.07	1008.71
Feb 28 2013	101.55	977.23	Feb 28 2013	70.07	1008.71
Mar 31 2013	95.07	983.71	Mar 31 2013	69.56	1009.22
Apr 30 2013	91.12	987.66	Apr 30 2013	68.86	1009.92
May 31 2013	100.46	978.32	May 31 2013	68.99	1009.79
Jun 30 2013	92.76	986.02	Jun 30 2013	68.48	1010.30
Jul 31 2013	103.60	975.18	Jul 31 2013	69.06	1009.72
Aug 31 2013	106.38	972.40	Aug 31 2013	69.37	1009.41
Sep 30 2013	100.63	978.15	Sep 30 2013	69.42	1009.36
Oct 28 2013	100.75	978.03	Oct 28 2013	69.66	1009.12
Nov 30 2013	97.40	981.38	Nov 30 2013	69.73	1009.05
Dec 31 2013	92.44	986.34	Dec 31 2013	69.57	1009.21
Jan 31 2014	91.68	987.10	Jan 31 2014	69.36	1009.42
Feb 28 2014	88.53	990.25	Feb 28 2014	68.94	1009.84
Mar 31 2014	85.27	993.51	Mar 31 2014	68.56	1010.22
Apr 30 2014	88.08	990.70	Apr 30 2014	68.29	1010.49
May 31 2014	97.71	981.07	May 31 2014	68.74	1010.04
Jun 30 2014	91.32	987.46	Jun 30 2014	68.57	1010.21
Jul 31 2014	104.65	974.13	Jul 31 2014	69.42	1009.36
Aug 31 2014	101.14	977.64	Aug 31 2014	69.88	1008.90
Sep 30 2014	105.86	972.92	Sep 30 2014	70.38	1008.40
Oct 31 2014	101.55	977.23	Oct 31 2014	70.81	1007.97
Nov 30 2014	98.06	980.72	Nov 30 2014	70.99	1007.79
Dec 31 2014	92.03	986.75	Dec 31 2014	70.63	1008.15

**Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)**

March 1990 through December 2020

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Jan 31 2015	92.82	985.96	Jan 31 2015	70.43	1008.35
Feb 28 2015	91.05	987.73	Feb 28 2015	70.19	1008.59
Mar 31 2015	91.23	987.55	Mar 31 2015	70.31	1008.47
Apr 30 2015	96.81	981.97	Apr 30 2015	70.44	1008.34
May 31 2015	103.71	975.07	May 31 2015	70.82	1007.96
Jun 30 2015	97.77	981.01	Jun 30 2015	70.94	1007.84
Jul 31 2015	112.23	966.55	Jul 31 2015	71.70	1007.08
Aug 31 2015	110.43	968.35	Aug 31 2015	72.12	1006.66
Sep 30 2015	102.79	975.99	Sep 30 2015	72.45	1006.33
Oct 31 2015	96.19	982.59	Oct 31 2015	72.49	1006.29
Nov 30 2015	92.48	986.30	Nov 30 2015	72.26	1006.52
Dec 31 2015	90.73	988.05	Dec 31 2015	72.03	1006.75
Jan 31 2016	87.41	991.37	Jan 31 2016	71.47	1007.31
Feb 29 2016	87.33	991.45	Feb 29 2016	71.19	1007.59
Mar 31 2016	93.73	985.05	Mar 31 2016	71.78	1007.00
Apr 30 2016	98.41	980.37	Apr 30 2016	71.74	1007.04
May 31 2016	103.08	975.70	May 31 2016	72.15	1006.63
Jun 30 2016	107.66	971.12	Jun 30 2016	72.54	1006.24
Jul 31 2016	112.88	965.90	Jul 31 2016	73.43	1005.35
Aug 31 2016	109.49	969.29	Aug 31 2016	73.96	1004.82
Sep 30 2016	106.14	972.64	Sep 30 2016	74.43	1004.35
Oct 31 2016	106.48	972.30	Oct 31 2016	74.81	1003.97
Nov 30 2016	102.72	976.06	Nov 30 2016	74.99	1003.79
Dec 31 2016	93.38	985.40	Dec 31 2016	74.87	1003.91
Jan 31 2017	88.60	990.18	Jan 31 2017	74.25	1004.53
Feb 28 2017	88.19	990.59	Feb 28 2017	73.72	1005.06
Mar 31 2017	86.76	992.02	Mar 31 2017	72.98	1005.80
Apr 30 2017	89.10	989.68	Apr 30 2017	72.88	1005.90
May 31 2017	98.84	979.94	May 31 2017	72.31	1006.47
Jun 30 2017	97.82	980.96	Jun 30 2017	72.60	1006.18
Jul 31 2017	106.56	972.22	Jul 31 2017	73.08	1005.70
Aug 31 2017	94.27	984.51	Aug 31 2017	72.86	1005.92
Sep 30 2017	113.84	964.94	Sep 30 2017	73.46	1005.32
Oct 31 2017	115.45	963.33	Oct 31 2017	74.38	1004.40
Nov 30 2017	104.71	974.07	Nov 30 2017	74.76	1004.02
Dec 31 2017	101.32	977.46	Dec 31 2017	75.05	1003.73
Jan 31 2018	96.40	982.38	Jan 31 2018	74.81	1003.97
Feb 28 2018	94.74	984.04	Feb 28 2018	74.65	1004.13
Mar 31 2018	99.06	979.72	Mar 31 2018	74.61	1004.17
Apr 30 2018	98.60	980.18	Apr 30 2018	74.80	1003.98
May 31 2018	106.40	972.38	May 31 2018	75.10	1003.68
Jun 30 2018	112.51	966.27	Jun 30 2018	75.34	1003.44
Jul 31 2018	118.90	959.88	Jul 31 2018	76.00	1002.78
Aug 31 2018	114.35	964.43	Aug 31 2018	76.34	1002.44
Sep 30 2018	118.45	960.33	Sep 30 2018	76.71	1002.07
Oct 31 2018	112.34	966.44	Oct 31 2018	77.09	1001.69
Nov 30 2018	103.66	975.12	Nov 30 2018	76.93	1001.85
Dec 31 2018	95.48	983.30	Dec 31 2018	76.39	1002.39

**Piezometric Head for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1-2)**

March 1990 through December 2020

Well 20J1			Well 20J2		
Date	Depth (feet)	Elevation (feet, MSL)	Date	Depth (feet)	Elevation (feet, MSL)
Jan 31 2019	92.82	985.96	Jan 31 2019	75.91	1002.87
Feb 28 2019	87.85	990.93	Feb 28 2019	74.92	1003.86
Mar 31 2019	92.30	986.48	Mar 31 2019	73.91	1004.87
Apr 30 2019	101.80	976.98	Apr 30 2019	73.33	1005.45
May 31 2019	103.49	975.29	May 31 2019	73.10	1005.68
Jun 30 2019	96.62	982.16	Jun 30 2019	73.37	1005.41
Jul 31 2019	96.13	982.65	Jul 31 2019	73.44	1005.34
Aug 31 2019	96.07	982.71	Aug 31 2019	73.85	1004.93
Sep 30 2019	97.60	981.18	Sep 30 2019	74.47	1004.31
Oct 31 2019	89.62	989.16	Oct 31 2019	74.40	1004.38
Nov 30 2019	89.46	989.32	Nov 30 2019	74.26	1004.52
Dec 31 2019	94.90	983.88	Dec 31 2019	74.48	1004.30
Jan 31 2020	86.75	992.03	Jan 31 2020	73.79	1004.99
Feb 28 2020	83.89	994.89	Feb 28 2020	72.81	1005.97
Mar 31 2020	79.62	999.16	Mar 31 2020	71.71	1007.07
Apr 30 2020	76.45	1002.33	Apr 30 2020	70.60	1008.18
May 31 2020	75.52	1003.26	May 31 2020	69.62	1009.16
Jun 30 2020	77.70	1001.08	Jun 30 2020	68.82	1009.96
Jul 31 2020	79.92	998.86	Jul 31 2020	68.16	1010.62
Aug 31 2020	82.73	996.05	Aug 31 2020	67.78	1011.00
Sep 30 2020	85.50	993.28	Sep 30 2020	67.46	1011.32
Oct 31 2020	84.21	994.57	Oct 31 2020	67.37	1011.41
Nov 30 2020	82.14	996.64	Nov 30 2020	67.10	1011.68
Dec 31 2020	82.21	996.57	Dec 31 2020	66.90	1011.88

Notes:

- (1) Data reported as 12:00 PM reading for period March 1990 through September 2010.
- (2) Data reported as daily median value for period October 2010 to present, where available.

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)**

Code	Parameter	MCL	Well J1				
			08/15/1990	12/20/1993	08/04/2009	07/26/2010	
3	Sampling date						
10	Temperature, water, degrees Celsius		20.5	20	21.8	21.7	
28	Agency analyzing sample, code		80020	80020	80020	80020	
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		1150	863	898	775	
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00002	0.00002		0.00003	
300	Dissolved oxygen, water, unfiltered, milligrams per liter						
400	pH, water, unfiltered, field, standard units		7.8	7.8	7.5	7.5	
403	pH, water, unfiltered, laboratory, standard units		8.1	7.7	7.6	7.6	
405	Carbon dioxide, water, unfiltered, milligrams per liter		7.2			12	
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter				253	223	
602	Total nitrogen, water, filtered, milligrams per liter		1.5			< 4.1	
607	Organic nitrogen, water, filtered, milligrams per liter					< 0.10	
608	Ammonia, water, filtered, milligrams per liter as nitrogen					< 0.020	
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.01	< 0.01	< 0.020	< 0.020	
618	Nitrate, water, filtered, milligrams per liter as nitrogen				< 0.002	0.001 E	
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		0.2		< 0.01	4.06 E	
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		1.3	3.6	3.42	< 0.10	
660	Orthophosphate, water, filtered, milligrams per liter		0.123	0.092		4.05	
666	Phosphorus, water, filtered, milligrams per liter		0.04		0.03 E	0.114	
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.04	0.03	0.029	0.037	
900	Hardness, water, milligrams per liter as calcium carbonate		340	270		282	
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate		110	71		99	
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate					94	
915	Calcium, water, filtered, milligrams per liter		100	80	102	88.8	
925	Magnesium, water, filtered, milligrams per liter		22	16	17.1	14.60	
930	Sodium, water, filtered, milligrams per liter		110	76	59.2	51.5	
931	Sodium adsorption ratio, water, number		2.6	2		1.34	
932	Sodium fraction of cations, water, percent in equivalents of major cations		41	38		28	
935	Potassium, water, filtered, milligrams per liter		2.3	1.4	1.51	1.35	
940	Chloride, water, filtered, milligrams per liter	600	110	86	71.9	64.4	
945	Sulfate, water, filtered, milligrams per liter	600	200	112	129	89.5	
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.5		0.08 E	0.12	
955	Silica, water, filtered, milligrams per liter		25	23	29.0	26.7	
1000	Arsenic, water, filtered, micrograms per liter	10 (c)		2	1.2	1.1	
1005	Barium, water, filtered, micrograms per liter	1000 (d)		61	65.9	56.6	
1010	Beryllium, micrograms per liter	4 (e)		< 0.5			
1020	Boron, water, filtered, micrograms per liter		110	70	59	55	
1025	Cadmium, micrograms per liter	5 (f)		< 1			
1030	Chromium, micrograms per liter	50 (g)		< 5			
1035	Cobalt, micrograms per liter			< 3			
1040	Copper, micrograms per liter	1000 (h)		< 10			
1046	Iron, water, filtered, micrograms per liter	300	< 3	< 3	2 E	< 6	
1049	Lead, micrograms per liter			< 10			
1056	Manganese, water, filtered, micrograms per liter	50	51	5	< 0.2	< 0.2	
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter			< 10			
1065	Nickel, micrograms per liter	100 (j)		< 10			
1075	Silver, micrograms per liter	100 (k)		1			
1080	Strontium, water, filtered, micrograms per liter			310	479	413	
1085	Vanadium, micrograms per liter			18			
1090	Zinc, micrograms per liter	5000 (l)		< 3			
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)			< 4.0	4.1	
1130	Lithium, water, filtered, micrograms per liter			7	8	8	
1145	Selenium, micrograms per liter	50 (o)		< 1			

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)**

Code	Parameter	MCL	Well J1			
			08/15/1990	12/20/1993	08/04/2009	07/26/2010
	Sampling date					
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter					
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					
4029	Bromacil, water, filtered, recoverable, micrograms per liter					
4035	Simazine, water, filtered, recoverable, micrograms per liter					
4036	Prometryn, water, filtered, recoverable, micrograms per liter					
4037	Prometon, water, filtered, recoverable, micrograms per liter					
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					
4095	Fonofos, water, filtered, recoverable, micrograms per liter					
7000	Tritium, water, unfiltered, picocuries per liter			4.0	3.9	
22703	Uranium, natural, micrograms per liter					
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, lab, milligrams per liter as calcium carbonate			215	189	
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter			< 0.04		
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter			< 0.04		
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5		< 0.06		
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter			< 0.1		
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter			< 0.10		
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter			< 0.1		
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter			< 0.04		
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150		< 0.02		
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1		< 0.02		
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter			< 0.4		
34221	Anthracene, water, filtered, recoverable, micrograms per liter					
34248	Benzofluorene, water, filtered, recoverable, micrograms per liter	0.2 (p)				
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter					
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70		< 0.02		
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter			< 0.1		
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300		< 0.04		
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter					
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter			< 0.1		
34409	Isophorone, water, filtered, recoverable, micrograms per liter					
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter			< 0.4		
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter			< 0.1		
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5		< 0.04		
34443	Naphthalene, water, filtered, recoverable, micrograms per liter					
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter					
34466	Phenol, water, filtered, recoverable, micrograms per liter					
34470	Pyrene, water, filtered, recoverable, micrograms per liter					
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5		< 0.04		
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter					
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150		0.05 E		
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5		< 0.04		
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6		< 0.02		
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200		< 0.02		
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5		< 0.06		
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1		< 0.10		
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600		< 0.02		
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5		< 0.02		
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10		< 0.02		
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5		< 0.04		
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter			< 0.02		
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5		< 0.02		
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter					
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter			< 0.10		
34699	Naphthalene, water, unfiltered, recoverable, micrograms per liter			< 0.2		
	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5		< 0.10		
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5		< 0.10		

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)**

Code	Parameter	MCL	Well J1			
			08/15/1990	12/20/1993	08/04/2009	07/26/2010
	Sampling date					
38454	Dicofthos, water, filtered, recoverable, micrograms per liter					
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					
39036	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		240	200		
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate				207	184
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5			< 0.1	
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5			< 0.02	
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					
39415	Metolachlor, water, filtered, recoverable, micrograms per liter					
39532	Malathion, water, filtered, recoverable, micrograms per liter					
39572	Diazinon, water, filtered, recoverable, micrograms per liter					
39632	Atrazine, water, filtered, recoverable, micrograms per liter					
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
46342	Alachlor, water, filtered, recoverable, micrograms per liter					
49280	Acetochlor, water, filtered, recoverable, micrograms per liter					
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
49933	C-14, water, filtered, percent modern				96.47	98.33
49934	C-14, counting error, water, filtered, percent modern				0.320	0.320
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter				< 0.6	
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.04	
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.06	
50305	Caffeine, water, filtered, recoverable, micrograms per liter					
50359	Metolaxyl, water, filtered, recoverable, micrograms per liter					
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6				
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					
61593	Iprodione, water, filtered, recoverable, micrograms per liter					
61594	Isophenfos, water, filtered, recoverable, micrograms per liter					
61596	Metolaxyl, water, filtered, recoverable, micrograms per liter					
61598	Methidathion, water, filtered, recoverable, micrograms per liter					
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					
61601	Phosmet, water, filtered, recoverable, micrograms per liter					
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					
61618	2-Chloro-2,6-diethylacetanilide, water, filtered, recoverable, micrograms per liter					
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter					
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					
61646	Fenamiphos sulfide, water, filtered, recoverable, micrograms per liter					
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					
61668	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					
61674	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					
61705	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					
61706	Diethoxyphenol, water, filtered, recoverable, micrograms per liter					
62005	Monocethoxyphenol, water, filtered, recoverable, micrograms per liter					
62054	Cotinine, water, filtered, recoverable, micrograms per liter					
62055	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)**

Code	Parameter	MCL	Well J1			
			08/15/1990	12/20/1993	08/04/2009	07/26/2010
	Sampling date					
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					
62058	3-Methyl-1-H-indole, water, filtered, recoverable, micrograms per liter					
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter					
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					
62063	5-Methyl-1-H-benzotriazole, water, filtered, recoverable, micrograms per liter					
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter					
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					
62070	Camphor, water, filtered, recoverable, micrograms per liter					
62071	Carbazole, water, filtered, recoverable, micrograms per liter					
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					
62076	Indole, water, filtered, recoverable, micrograms per liter					
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter					
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter					
62080	Menthol, water, filtered, recoverable, micrograms per liter					
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					
62082	DEET, water, filtered, recoverable, micrograms per liter					
62083	Diethoxydiphenyl, water, filtered, recoverable, micrograms per liter					
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter					
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					
62090	Tricosan, water, filtered, recoverable, micrograms per liter					
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62166	Fipronil, water, filtered, recoverable, micrograms per liter					
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter					
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter					
62169	Desulfinyfipronil, water, filtered, recoverable, micrograms per liter					
62170	Desulfinyfipronil, water, filtered, recoverable, micrograms per liter					
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter					
63790	Perchlorate, water, filtered, recoverable, micrograms per liter					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	6				
70301	Residue, water, filtered, sum of constituents, milligrams per liter	1500	596	531	482	466 E
70303	Residue, water, filtered, tons per acre-foot		717	528		
71846	Ammonia, water, filtered, milligrams per liter as NH4					< 0.026
71851	Nitrate, water, filtered, milligrams per liter	45 (g)				17.9 E
71856	Nitrite, water, filtered, milligrams per liter					0.004 E
71865	Iodide, water, filtered, milligrams per liter					0.001 E
71870	Bromide, water, filtered, milligrams per liter					0.35
72019	Depth to water level, feet below land surface		72.28			
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter					< 0.4
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter					< 0.1
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)**

Code	Parameter	MCL	Well J1			
			08/15/1990	12/20/1993	08/04/2009	07/26/2010
	Sampling date					
77041	Carbon disulfide, water, unfiltered, micrograms per liter					< 0.04
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.6
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100				< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.1
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter					< 0.02
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					< 0.02
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					< 0.02
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.06
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.02
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.06
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter					< 0.06
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter					< 0.80
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05				< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter					< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.1
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.4
81552	Acetone, water, unfiltered, recoverable, micrograms per liter					< 4
81576	Bromobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.02
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.1
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter					< 0.06
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.2
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter					< 1.6
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter					< 0.2
82081	C-13/C-12 ratio, water, unfiltered, per mil					< 1
82082	Deuterium/Protium ratio, water, unfiltered, per mil					< 1
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil					-15.29
82303	Rn-222, water, unfiltered, picocuries per liter					-42.80
82346	Ethion, water, filtered, recoverable, micrograms per liter					-44.2
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter					-6.8
82630	Methibuzin, water, filtered, recoverable, micrograms per liter					-6.66
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 1.0
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82670	Tributhion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82676	Propylamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J1)**

Code	Parameter	MCL				Well J1	
		08/15/1990	12/20/1993	08/04/2009	07/26/2010		
	Sampling date						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter			< 0.08			
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius	1130	868	911	787		
90851	Trihalomethanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery			131			
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery			86.4			
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery			85.9			
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)**

Code	Parameter	MCL	Well J2				
			08/15/1990	12/20/1993	08/04/2009	07/26/2010	
3	Sampling date						
10	Temperature, water, degrees Celsius		19	19	20.8	20.8	
28	Agency analyzing sample, code		80020	80020	80020	80020	
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius						
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00003	0.00003	423	422	
300	Dissolved oxygen, water, unfiltered, milligrams per liter					0.00003	
400	pH, water, unfiltered, field, standard units		7.6	7.6	7.5	7.5	
403	pH, water, unfiltered, laboratory, standard units		8.6	7.6	7.5	7.6	
405	Carbon dioxide, water, unfiltered, milligrams per liter		7.7			9.7	
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter				193	193	
602	Total nitrogen, water, filtered, milligrams per liter		1.7			< 1.7	
607	Organic nitrogen, water, filtered, milligrams per liter					< 0.10	
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.01	< 0.01	0.012 E	< 0.020	
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		< 0.01	< 0.002	0.001 E	
618	Nitrate, water, filtered, milligrams per liter as nitrogen					1.57 E	
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		0.5		< 0.01	< 0.10	
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		1.2	1.2	1.58	1.57	
660	Orthophosphate, water, filtered, milligrams per liter		0.675	0.307		0.306	
666	Phosphorus, water, filtered, milligrams per liter		0.23		0.09	0.09	
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.22	0.1	0.096	0.100	
900	Hardness, water, milligrams per liter as calcium carbonate						
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate		130	130		141	
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						
915	Calcium, water, filtered, milligrams per liter		42	42	43.5	45.6	
925	Magnesium, water, filtered, milligrams per liter		6.3	6	6.02	6.42	
930	Sodium, water, filtered, milligrams per liter		38	35	32.6	34.7	
931	Sodium adsorption ratio, water, number		1.4	1.3		1.27	
932	Sodium fraction of cations, water, percent in equivalents of major cations		39	37		35	
935	Potassium, water, filtered, milligrams per liter		0.8	0.8	0.84	0.83	
940	Chloride, water, filtered, milligrams per liter	600	27	29	24.4	25.9	
945	Sulfate, water, filtered, milligrams per liter	600	12	12	13.0	13.2	
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.7		0.28	0.31	
955	Silica, water, filtered, milligrams per liter		28	25	28.3	25.7	
1000	Arsenic, water, filtered, micrograms per liter	10 (c)		1	1.0	0.96	
1005	Barium, water, filtered, micrograms per liter	1000 (d)		40	42.8	42.5	
1010	Beryllium, micrograms per liter	4 (e)		< 0.5			
1020	Boron, water, filtered, micrograms per liter		60	50	37	37	
1025	Cadmium, micrograms per liter	5 (f)		< 1			
1030	Chromium, micrograms per liter	50 (g)		< 5			
1035	Cobalt, micrograms per liter			< 3			
1040	Copper, micrograms per liter	1000 (h)		< 10			
1046	Iron, water, filtered, micrograms per liter	300	< 3	< 3	< 4	< 6	
1049	Lead, micrograms per liter			< 10			
1056	Manganese, water, filtered, micrograms per liter	50	< 1	< 1	0.2 E	0.1 E	
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter			< 10			
1065	Nickel, micrograms per liter	100 (j)		< 10			
1075	Silver, micrograms per liter	100 (k)		< 1			
1080	Strontium, water, filtered, micrograms per liter			170	175	183	
1085	Vanadium, micrograms per liter			15			
1090	Zinc, micrograms per liter	5000 (l)		4			
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)					
1130	Lithium, water, filtered, micrograms per liter			5	< 4.0	6.3	
1145	Selenium, micrograms per liter	50 (o)		< 1	5	6	

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)**

Code	Parameter	MCL	Well J2			
			08/15/1990	12/20/1993	08/04/2009	07/26/2010
	Sampling date					
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter					
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					
4029	Bromacil, water, filtered, recoverable, micrograms per liter					
4035	Simazine, water, filtered, recoverable, micrograms per liter					
4036	Prometryn, water, filtered, recoverable, micrograms per liter					
4037	Prometon, water, filtered, recoverable, micrograms per liter					
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					
4095	Fonofos, water, filtered, recoverable, micrograms per liter					
7000	Tritium, water, unfiltered, picocuries per liter			5.5	5.2	
22703	Uranium, natural, micrograms per liter					
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, lab, milligrams per liter as calcium carbonate			163	162	
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter			< 0.04		
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter			< 0.04		
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5		< 0.06		
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter			< 0.1		
32104	1,2-Dibromochloroethane, water, unfiltered, recoverable, micrograms per liter			< 0.10		
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter			< 0.1		
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter			< 0.04		
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150		< 0.02		
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1		< 0.02		
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter			< 0.4		
34221	Anthracene, water, filtered, recoverable, micrograms per liter					
34248	Benzofluoranthene, water, filtered, recoverable, micrograms per liter	0.2 (p)				
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter					
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70		< 0.02		
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter			< 0.1		
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300		< 0.04		
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter					
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter			< 0.1		
34409	Isophorone, water, filtered, recoverable, micrograms per liter					
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter			< 0.4		
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter			< 0.1		
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5		< 0.04		
34443	Naphthalene, water, filtered, recoverable, micrograms per liter					
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter					
34466	Phenol, water, filtered, recoverable, micrograms per liter					
34470	Pyrene, water, filtered, recoverable, micrograms per liter					
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5		< 0.04		
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter					
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150		0.15		
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5		< 0.04		
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6		< 0.02		
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200		< 0.02		
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5		< 0.06		
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1		< 0.10		
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600		< 0.02		
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5		< 0.02		
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10		< 0.02		
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5		< 0.04		
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter			< 0.02		
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5		< 0.02		
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter					
34688	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter			< 0.10		
34699	Naphthalene, water, unfiltered, recoverable, micrograms per liter			< 0.2		
	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5		< 0.10		
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5		< 0.10		

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)**

Code	Parameter	MCL	Well J2			
			08/15/1990	12/20/1993	08/04/2009	07/26/2010
	Sampling date					
38454	Dicortophos, water, filtered, recoverable, micrograms per liter					
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					
39036	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		160	150		
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate				158	159
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5			< 0.1	
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5			< 0.02	
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					
39415	Metolachlor, water, filtered, recoverable, micrograms per liter					
39532	Malathion, water, filtered, recoverable, micrograms per liter					
39572	Diazinon, water, filtered, recoverable, micrograms per liter					
39632	Atrazine, water, filtered, recoverable, micrograms per liter					
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
46342	Alachlor, water, filtered, recoverable, micrograms per liter					
49280	Acetochlor, water, filtered, recoverable, micrograms per liter					
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
49933	C-14, water, filtered, percent modern				103.4	103.3
49934	C-14, counting error, water, filtered, percent modern				0.360	0.400
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter				< 0.6	
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter				< 0.1	
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.04	
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter				< 0.06	
50305	Caffeine, water, filtered, recoverable, micrograms per liter					
50359	Metolaxyl, water, filtered, recoverable, micrograms per liter					
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6				
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					
61593	Iprodione, water, filtered, recoverable, micrograms per liter					
61594	Isofenphos, water, filtered, recoverable, micrograms per liter					
61596	Metolaxyl, water, filtered, recoverable, micrograms per liter					
61598	Methidathion, water, filtered, recoverable, micrograms per liter					
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					
61601	Phosmet, water, filtered, recoverable, micrograms per liter					
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					
61618	2-Chloro-2,6-diethylacetanilide, water, filtered, recoverable, micrograms per liter					
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter					
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					
61668	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					
61674	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					
61705	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					
61706	Diethoxyphenol, water, filtered, recoverable, micrograms per liter					
62005	Monocethoxyphenol, water, filtered, recoverable, micrograms per liter					
62054	Cotinine, water, filtered, recoverable, micrograms per liter					
62055	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)**

Code	Parameter	MCL	Well J2			
			08/15/1990	12/20/1993	08/04/2009	07/26/2010
	Sampling date					
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					
62058	3-Methyl-1-H-indole, water, filtered, recoverable, micrograms per liter					
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter					
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					
62063	5-Methyl-1-H-benzotriazole, water, filtered, recoverable, micrograms per liter					
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter					
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					
62070	Camphor, water, filtered, recoverable, micrograms per liter					
62071	Carbazole, water, filtered, recoverable, micrograms per liter					
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					
62076	Indole, water, filtered, recoverable, micrograms per liter					
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter					
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter					
62080	Menthol, water, filtered, recoverable, micrograms per liter					
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					
62082	DEET, water, filtered, recoverable, micrograms per liter					
62083	Diethoxydiphenyl, water, filtered, recoverable, micrograms per liter					
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter					
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					
62090	Tricosan, water, filtered, recoverable, micrograms per liter					
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62166	Fipronil, water, filtered, recoverable, micrograms per liter					
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter					
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter					
62169	Desulfinyfipronil amide, water, filtered, recoverable, micrograms per liter					
62170	Desulfinyfipronil, water, filtered, recoverable, micrograms per liter					
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter					
63790	Perchlorate, water, filtered, recoverable, micrograms per liter					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter		216	265	250	256 E
70301	Residue, water, filtered, sum of constituents, milligrams per liter		1500	247		
70303	Residue, water, filtered, tons per acre-foot					
71846	Ammonia, water, filtered, milligrams per liter as NH4					< 0.026
71851	Nitrate, water, filtered, milligrams per liter		45 (g)			6.94 E
71856	Nitrite, water, filtered, milligrams per liter					0.003 E
71865	Iodide, water, filtered, milligrams per liter				0.001 E	< 0.002
71870	Bromide, water, filtered, milligrams per liter				0.09	0.09
72019	Depth to water level, feet below land surface		61.65			
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter					< 0.4
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter					< 0.1
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)**

Code	Parameter	MCL	Well J2			
			08/15/1990	12/20/1993	08/04/2009	07/26/2010
	Sampling date					
77041	Carbon disulfide, water, unfiltered, micrograms per liter					< 0.04
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.6
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100				< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.1
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter					< 0.02
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					< 0.02
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					< 0.02
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter					< 0.06
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.02
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					< 0.06
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter					< 0.06
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter					< 0.80
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter					< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.1
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05				< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter					< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.1
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter					< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 0.4
81552	Acetone, water, unfiltered, recoverable, micrograms per liter					< 4
81576	Bromobenzene, water, unfiltered, recoverable, micrograms per liter					< 0.02
81577	Diethyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.1
81593	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter					< 0.06
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter					< 0.2
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					< 1.6
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter					< 0.2
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter					< 1
82081	C-13/C-12 ratio, water, unfiltered, per mil					-14.99
82082	Deuterium/Protium ratio, water, unfiltered, per mil					-42.90
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil					-44
82303	Rn-222, water, unfiltered, picocuries per liter					-7
82346	Ethion, water, filtered, recoverable, micrograms per liter					
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter					< 1.0
82630	Metribuzin, water, filtered, recoverable, micrograms per liter					
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82676	Propylamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Wolf Valley Well (8S/2W-20J2)**

Code	Parameter	MCL				Well J2	
		08/15/1990	12/20/1993	08/04/2009	07/26/2010		
	Sampling date						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter	404	408	< 0.08	433	422	
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius						
90851	Trihalomethanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery				133		
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery				85.7		
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery				87.2		
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

APPENDIX C-3

**TEMECULA CREEK
GROUNDWATER MONITORING WELL**

Site Description

Temecula Creek Groundwater Monitoring Well (8S/2W-15F1-5)

LOCATION: Latitude 33° 28' 57.8", longitude 117° 04' 33.2" (NAD83) in SE1/4 SE1/4 NW1/4 Section 15, T8S, R2W, Riverside County, California. Well is located off Butterfield Stage Road on Channel Street near Temecula Creek Trail Park in Temecula, California.

SITE INFORMATION: Land-surface altitude is 1110.53 feet above mean sea level (NAVD88).

WATER-LEVEL RECORD: The period of record for intermittent and daily water-level measurements is listed below.

State well number	USGS station number	Intermittent water-level	Daily water-level
8S/2W-15F1	332857117043301	7/11/2013 to present	9/28/2013 to present
8S/2W-15F2	332857117043302	7/11/2013 to present	10/1/2013 to present
8S/2W-15F3	332857117043303	7/11/2013 to present	10/19/2013 to present
8S/2W-15F4	332857117043304	7/11/2013 to present	9/28/2013 to present
8S/2W-15F5	332857117043305	7/11/2013 to present	10/1/2013 to present

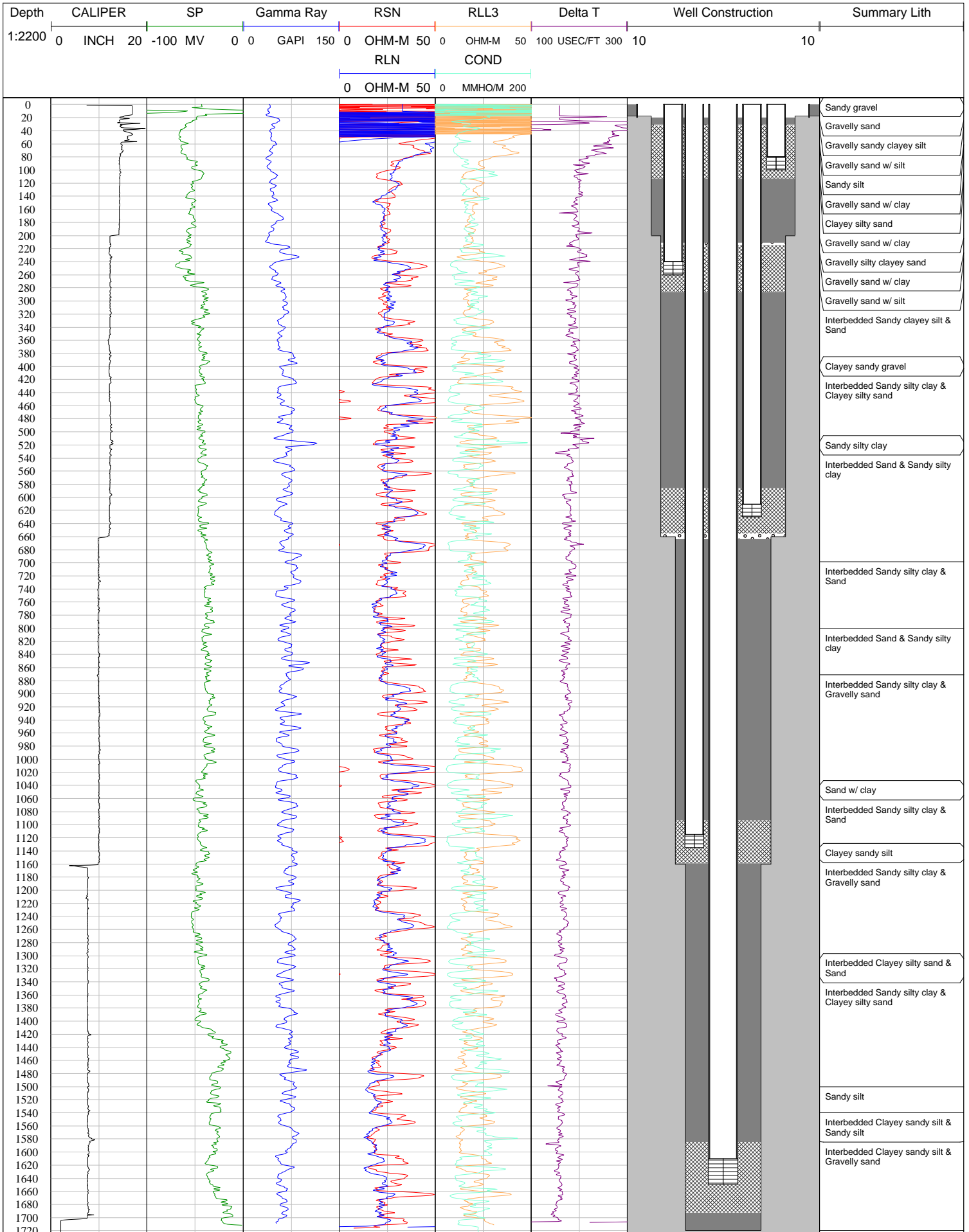
TOPOGRAPHIC MAP: USGS Pechanga, California, 7.5 minute series.

WELL SUMMARY INFORMATION:

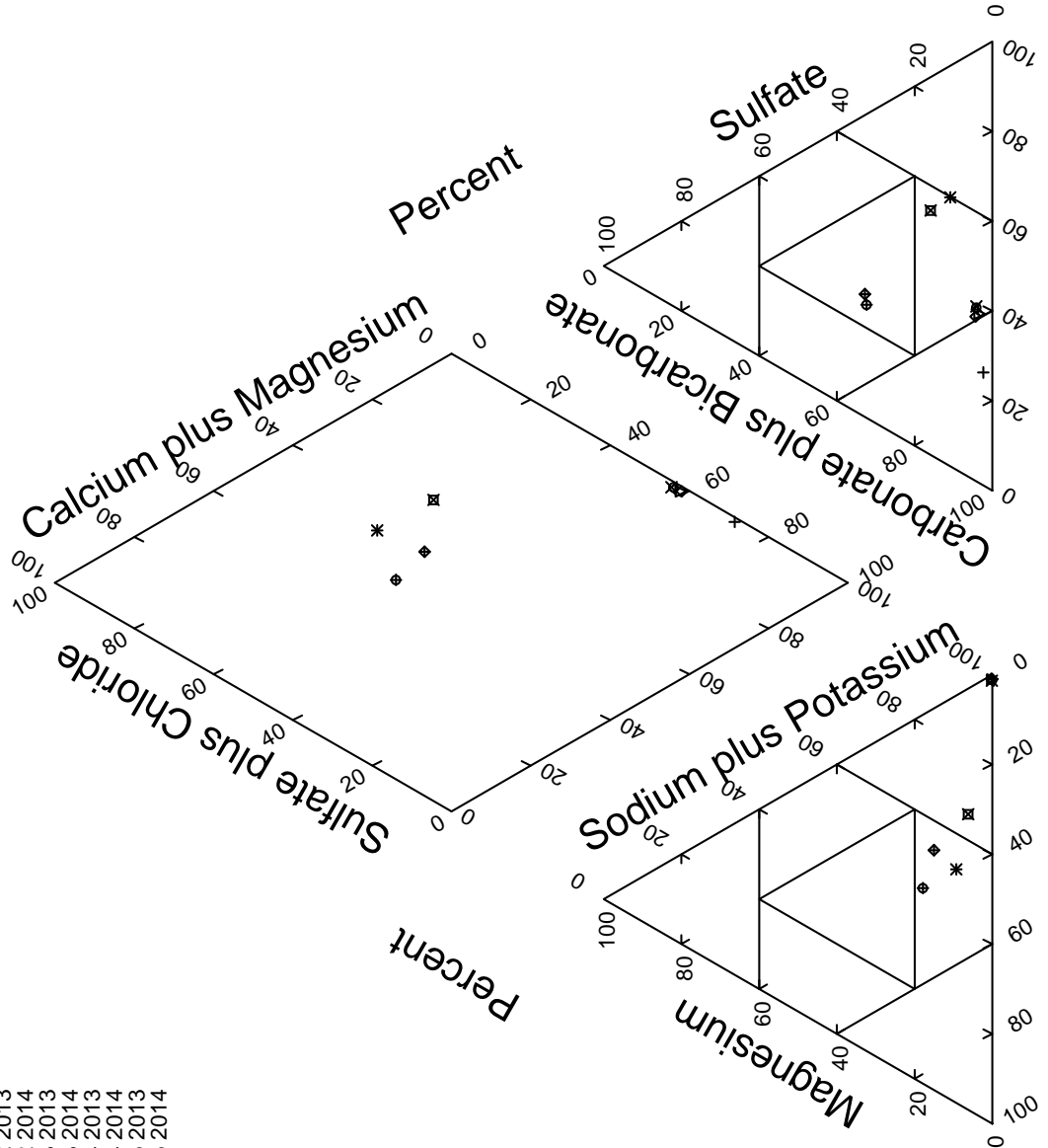
State well number	USGS station number	Hole depth (ft)	Perforation depth (ft)	Casing size and type	Date drilled
8S/2W-15F1	332857117043301	1720	1610-1650	3" PVC	4/2/13
8S/2W-15F2	332857117043302	1720	1115-1135	2" PVC	4/2/13
8S/2W-15F3	332857117043303	1720	610-630	2" PVC	4/2/13
8S/2W-15F4	332857117043304	1720	240-260	2" PVC	4/2/13
8S/2W-15F5	332857117043305	1720	80-100	2" PVC	4/2/13

ADDITIONAL INFORMATION:

Additional information can also be found at the following web site:
<http://ca.water.usgs.gov/temecula/>.

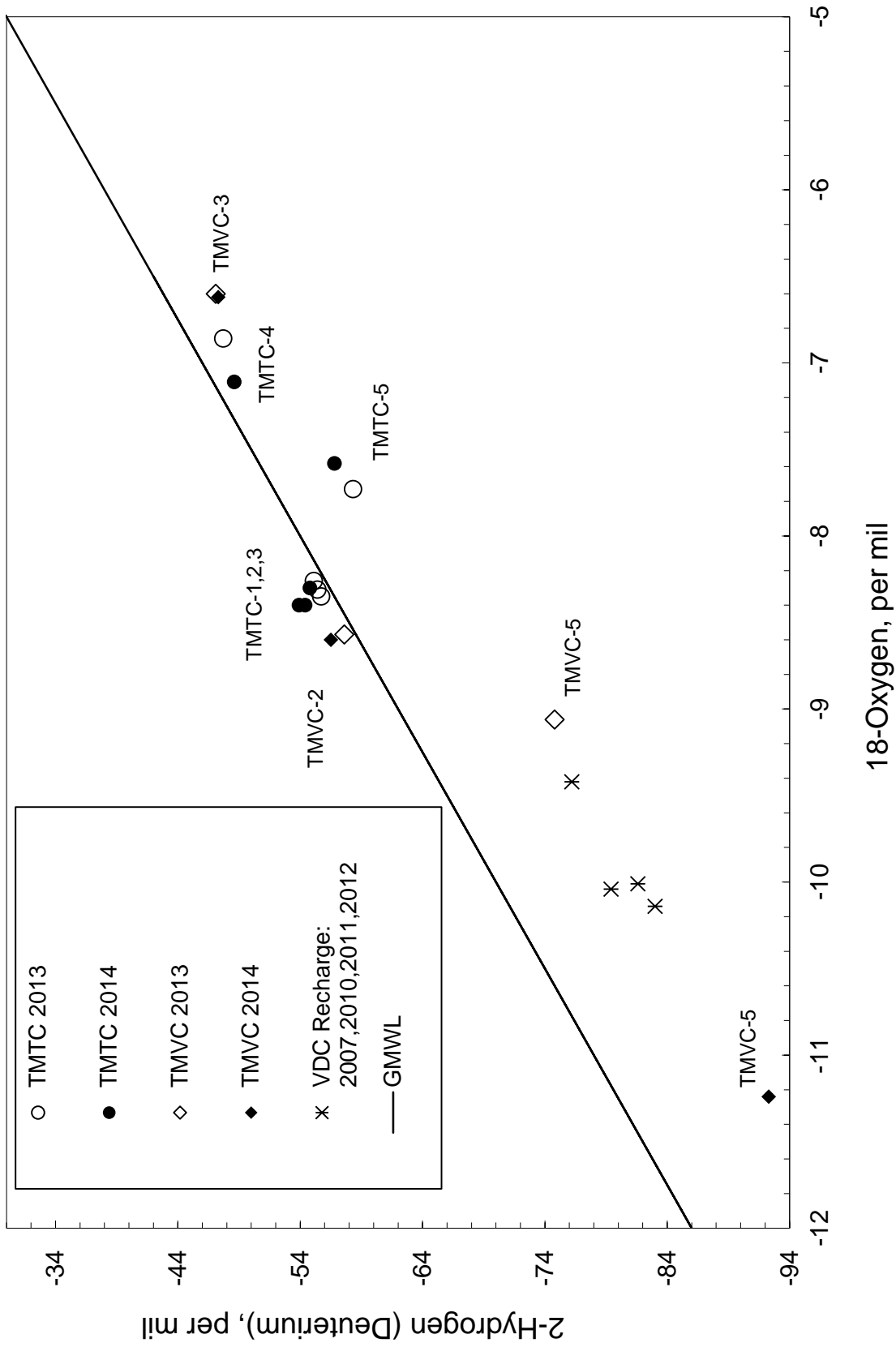


- Explanation
- TMTC-1 2013
 - △ TMTC-1 2014
 - + TMTC-2 2013
 - x TMTC-2 2014
 - ◇ TMTC-3 2013
 - ▽ TMTC-3 2014
 - TMTC-4 2013
 - * TMTC-4 2014
 - ◆ TMTC-5 2013
 - ◊ TMTC-5 2014



Stable Isotope Diagram

Temecula Creek and VDC Recharge Basin Monitoring Wells



Source: USGS California Water Science Center.

**End-of Month Piezometric Head for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
(elevation in feet, MSL)**

September 2013 through December 2020

Month	Well F1	Well F2	Well F3	Well F4	Well F5
Jan 13	---	---	---	---	---
Feb	---	---	---	---	---
Mar	---	---	---	---	---
Apr	---	---	---	---	---
May	---	---	---	---	---
Jun	---	---	---	---	---
Jul	---	---	---	---	---
Aug	---	---	---	---	---
Sep	822.19	---	---	1021.91	---
Oct	820.46	784.40	788.85	1020.74	1065.59
Nov	821.41	792.71	812.22	1020.69	1065.36
Dec	823.06	797.23	772.46	1020.07	1065.21
Jan 14	823.71	793.07	771.38	1019.72	1064.92
Feb	822.19	792.53	799.75	1019.48	1064.81
Mar	820.85	800.28	837.25	1020.12	1064.55
Apr	819.56	801.09	843.54	1019.75	1064.38
May	818.59	802.22	850.94	1020.04	1064.20
Jun	818.29	803.56	821.98	1020.99	1064.02
Jul	817.53	798.31	772.47	1020.86	1063.83
Aug	816.73	790.42	757.13	1019.66	1063.63
Sep	815.67	783.98	746.93	1019.39	1063.40
Oct	814.43	782.65	755.14	1021.15	1063.25
Nov	813.25	788.38	786.82	1020.53	1062.97
Dec	814.85	798.97	836.89	1022.24	1062.93
Jan 15	813.87	798.69	829.96	1020.63	1062.97
Feb	813.57	790.07	783.60	1019.66	1062.85
Mar	813.89	788.12	756.86	1020.06	1062.81
Apr	811.97	785.97	789.51	1019.11	1062.64
May	811.28	785.63	776.32	1017.84	1062.42
Jun	810.25	782.50	754.94	1016.68	1062.27
Jul	808.87	781.65	796.33	1014.28	1062.06
Aug	807.86	781.57	790.97	1014.37	1061.86
Sep	807.40	782.21	770.46	1014.73	1061.68
Oct	806.55	785.05	782.19	1013.40	1061.33
Nov	805.81	782.95	797.00	1012.36	1061.15
Dec	805.90	787.74	823.31	1013.51	1060.97
Jan 16	806.82	789.65	806.22	1014.11	1061.01
Feb	806.44	789.81	803.72	1014.61	1060.76
Mar	806.99	791.03	791.46	1014.73	1060.60
Apr	808.63	791.09	775.12	1014.73	1060.60
May	809.85	789.45	763.31	1013.82	1060.36
Jun	809.73	786.72	766.72	1014.26	1060.11
Jul	810.33	789.06	792.33	1014.37	1059.84
Aug	811.23	791.71	784.09	1014.58	1059.64
Sep	812.04	791.43	780.75	1013.49	1059.36
Oct	813.01	793.25	773.50	1012.82	1059.09
Nov	813.35	795.08	812.64	1012.75	1058.88
Dec	813.21	800.80	830.48	1013.72	1058.77

**End-of Month Piezometric Head for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
(elevation in feet, MSL)**

September 2013 through December 2020

Month	Well F1	Well F2	Well F3	Well F4	Well F5
Jan 17	814.25	806.49	829.07	1014.89	1058.81
Feb	815.05	809.21	838.93	1015.33	1058.86
Mar	815.42	807.66	813.81	1015.67	1059.47
Apr	815.00	806.40	820.07	1015.36	1059.35
May	814.67	804.60	820.72	1015.05	1059.29
Jun	814.23	803.22	814.63	1014.88	1059.04
Jul	813.79	802.84	815.64	1014.71	1058.85
Aug	813.91	802.79	815.81	1014.99	1058.62
Sep	813.25	801.71	814.33	1014.55	1058.39
Oct	812.78	800.45	812.72	1014.08	1058.14
Nov	812.30	800.18	812.66	1013.59	1057.87
Dec	812.19	797.80	815.52	1012.89	1057.68
Jan 18	811.95	796.77	818.72	1013.36	1057.58
Feb	811.44	796.58	813.11	1014.04	1057.30
Mar	811.82	800.81	823.88	1013.95	1057.36
Apr	811.31	798.77	814.07	1013.06	1057.27
May	810.85	797.12	812.79	1013.03	1057.22
Jun	809.77	795.37	817.43	1012.12	1056.97
Jul	809.44	794.29	811.05	1011.94	1056.78
Aug	809.07	791.61	809.24	1012.01	1056.63
Sep	808.34	789.11	809.57	1012.43	1056.39
Oct	807.42	788.46	804.30	1012.92	1056.19
Nov	806.68	785.56	802.02	1012.91	1056.05
Dec	806.87	790.53	817.26	1013.25	1056.14
Jan 19	---	793.62	814.77	1013.63	1056.06
Feb	808.35	798.40	828.13	1014.22	1056.39
Mar	808.75	798.67	818.05	1014.38	1056.98
Apr	808.03	792.57	808.12	1014.46	1057.12
May	807.59	790.92	803.41	1014.98	1057.27
Jun	806.64	785.18	790.79	1013.94	1057.10
Jul	806.42	784.04	785.65	1013.53	1056.79
Aug	805.77	785.54	805.65	1012.81	1056.55
Sep	805.38	---	---	1012.92	1056.24
Oct	804.59	784.23	804.67	1012.68	1055.90
Nov	804.84	787.80	817.95	1012.67	1055.52
Dec	805.74	794.07	828.71	1013.42	1055.57
Jan 20	805.54	794.39	830.05	1013.46	1055.47
Feb	806.37	798.19	832.06	1013.16	1055.60
Mar	807.78	802.93	836.93	1013.36	1055.91
Apr	808.94	800.33	813.12	1014.15	1056.35
May	808.52	790.52	791.39	1013.01	1056.59
Jun	808.08	784.06	775.24	1012.26	1056.45
Jul	807.40	785.30	814.35	1012.01	1056.27
Aug	806.84	786.65	815.95	1011.87	1056.03
Sep	806.48	785.67	807.54	1011.69	1055.83
Oct	806.22	787.10	818.97	1012.05	1055.65
Nov	805.95	788.38	822.59	1012.48	1055.54
Dec	806.17	789.19	819.88	1012.51	1055.56

Notes:

(1) Data reported as daily median value for period of record, where available.

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
May 2013**

Code	Parameter	MCL	Well F1 05/16/2013	Well F2 05/14/2013	Well F3 05/13/2013	Well F4 05/14/2013	Well F5 05/14/2013
3	Sampling date						
10	Temperature, water, degrees Celsius		22.0	21.9	24.8	23.4	21.2
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		480	483	504	717	1060
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.9	2.4	2.4	3.1	0.00001
400	pH, water, unfiltered, field, standard units		9.6	9.5	9.5	8.0	7.5
403	pH, water, unfiltered, laboratory, standard units		9.5	9.5	9.5	8.2	7.9
405	Carbon dioxide, water, unfiltered, milligrams per liter		M	0.1	0.1	2.1	12
452	Carbonate, water filtered, inflection-point titration method, field, milligrams per liter						
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter						
602	Total nitrogen, water, filtered, milligrams per liter		< 0.12	0.71	< 0.16	3.5	5.4
607	Organic nitrogen, water, filtered, milligrams per liter		0.05	0.37	0.10	0.10	0.52
608	Ammonia, water, filtered, milligrams per liter as nitrogen		0.04	0.05	0.01	0.02	0.01
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	0.003	< 0.001	< 0.001	0.148	0.014
618	Nitrate, water, filtered, milligrams per liter as nitrogen		< 0.037	0.3	< 0.040	3.26	4.82
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		0.09	0.41	0.12	0.12	0.53
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		< 0.040	0.30	< 0.040	3.41	4.84
660	Orthophosphate, water, filtered, milligrams per liter		0.117	0.502	1.12	0.409	1.07
666	Phosphorus, water, filtered, milligrams per liter		0.03	0.15	0.47	0.14	0.35
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.038	0.164	0.366	0.133	0.350
681	Organic carbon, water, filtered, milligrams per liter		0.58	1.12	0.83	0.85	1.82
900	Hardness, water, milligrams per liter as calcium carbonate					116	242
904	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate					17	38
905	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate					9	18
915	Calcium, water, filtered, milligrams per liter		1.03	0.924	0.777	37.8	65.6
925	Magnesium, water, filtered, milligrams per liter						
930	Sodium, water, filtered, milligrams per liter		100	102	105	100	125
931	Sodium adsorption ratio, water, number					4.06	3.50
932	Sodium fraction of cations, water, percent in equivalents of major cations					65	52
935	Potassium, water, filtered, milligrams per liter		0.34	0.50	0.55	2.95	4.19
940	Chloride, water, filtered, milligrams per liter	600	48.2	48.4	48.1	120	86.2
945	Sulfate, water, filtered, milligrams per liter	600	8.91	8.18	10.0	50.9	161
950	Fluoride, water, filtered, milligrams per liter	2 (b)	7.56	7.94	7.89	0.14	0.49
955	Silica, water, filtered, milligrams per liter		22.4	19.5	15.1	22.3	27.0
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	41.2	53.6	42.3	1.4	3.5
1005	Barium, water, filtered, micrograms per liter	1000 (d)		2.4		126	32.5
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter		2080	1860	1900	91	201
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300	10.2	46.3	22.4	< 4.0	5.8
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50		1.46	2.31	5.56	4.97
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter		6.9	7.6	8.7	511	366
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
May 2013**

Code	Parameter	MCL	Well F1 05/16/2013	Well F2 05/14/2013	Well F3 05/13/2013	Well F4 05/14/2013	Well F5 05/14/2013
1095	Antimony, micrograms per liter						
1106	Aluminum, water, filtered, micrograms per liter	6 (m)					
1130	Lithium, water, filtered, micrograms per liter	1000 (n)	69.0	181	88.6	5.2	11.6
1145	Selenium, micrograms per liter	50 (o)	E6.19	E3.73	E2.99	E5.99	E4.35
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4036	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter		R -0.2	R 0.0	R 0.2	R 0.2	6.5
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5), titration, laboratory, milligrams per liter as calcium carbonate		138	136	148	107	224
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter						
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter						
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5					
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter						
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter						
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter						
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter						
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150					
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1					
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[<i>a</i>]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70					
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter						
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300					
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter						
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter						
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter						
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5					
34476	Tetrachloroethane, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200					
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1					
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600					
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5					
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10					
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
May 2013**

Code	Parameter	MCL	Well F1 05/16/2013	Well F2 05/14/2013	Well F3 05/13/2013	Well F4 05/14/2013	Well F5 05/14/2013
34571	Sampling date						
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter						
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter						
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
38454	Dicropthos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		132	262	145	99	204
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5					
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5					
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern		0.66	3.17	2.11	55.26	94.5
49934	C-14, counting error, water, filtered, percent modern		0.05	0.07	0.06	0.23	0.29
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter						
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter						
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter						
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter						
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter						
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter	6					
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isolenphos, water, filtered, recoverable, micrograms per liter						
61596	Metaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2,6-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
May 2013**

Code	Sampling date	Parameter	MCL	Well F1 05/16/2013	Well F2 05/14/2013	Well F3 05/13/2013	Well F4 05/14/2013	Well F5 05/14/2013
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter							
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter							
61705	Diethoxyctylphenol, water, filtered, recoverable, micrograms per liter							
61706	Monoethoxyctylphenol, water, filtered, recoverable, micrograms per liter							
62005	Cotinine, water, filtered, recoverable, micrograms per liter							
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter							
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter							
62057	3-beta-Coprostano, water, filtered, recoverable, micrograms per liter							
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter							
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter							
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter							
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter							
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter							
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter							
62064	Acetophenone, water, filtered, recoverable, micrograms per liter							
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter							
62066	9,10-Antraquinone, water, filtered, recoverable, micrograms per liter							
62067	Benzophenone, water, filtered, recoverable, micrograms per liter							
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter							
62070	Camphor, water, filtered, recoverable, micrograms per liter							
62071	Carbazole, water, filtered, recoverable, micrograms per liter							
62072	Cholesterol, water, filtered, recoverable, micrograms per liter							
62073	D-Limonene, water, filtered, recoverable, micrograms per liter							
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter							
62076	Indole, water, filtered, recoverable, micrograms per liter							
62077	Isoborneol, water, filtered, recoverable, micrograms per liter							
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter							
62079	Isouquinoline, water, filtered, recoverable, micrograms per liter							
62080	Menthol, water, filtered, recoverable, micrograms per liter							
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter							
62082	DEET, water, filtered, recoverable, micrograms per liter							
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter							
62084	p-Cresol, water, filtered, recoverable, micrograms per liter							
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter							
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter							
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter							
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter							
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter							
62090	Triclosan, water, filtered, recoverable, micrograms per liter							
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter							
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter							
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter							
62166	Fipronil, water, filtered, recoverable, micrograms per liter							
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter							
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter							
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter							
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter							
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter							
63790	Perchlorate, water, filtered, recoverable, micrograms per liter							
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	6						
70301	Residue, water, filtered, sum of constituents, milligrams per liter	1500		293	267	299	422	658
70303	Residue, water, filtered, tons per acre-foot						E 415	E 634
71846	Ammonia, water, filtered, milligrams per liter as NH4			0.047	0.058	0.019	0.021	0.016

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
May 2013**

Code	Parameter	MCL	Well F1 05/16/2013	Well F2 05/14/2013	Well F3 05/13/2013	Well F4 05/14/2013	Well F5 05/14/2013
71851	Nitrate, water, filtered, milligrams per liter		< 0.162	1.33	< 0.177	14.4	21.4
71856	Nitrite, water, filtered, milligrams per liter	45 (q)	0.011	< 0.003	< 0.003	0.485	0.047
71865	Iodide, water, filtered, milligrams per liter		0.078	0.085	0.075	0.013	0.008
71870	Bromide, water, filtered, milligrams per liter		0.108	0.129	0.131	0.401	0.308
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter						
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, recoverable, micrograms per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter	6					
77093	dis-1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter						
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100					
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter						
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter						
77170	2,2-Dichloropropene, water, unfiltered, recoverable, micrograms per liter						
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter						
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter						
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter						
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter						
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter						
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter						
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter						
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05					
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter						
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter						
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter						
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81552	Acetone, water, unfiltered, recoverable, micrograms per liter						
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter						
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter						
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter						
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter						
82081	C-13/C-12 ratio, water, unfiltered, per mil		-9.44	-10.68	-10.94	-14.91	-13.49
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-55.40	-55.70	-55.10	-47.70	-58.30
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-8.31	-8.35	-8.26	-6.86	-7.73
82303	Rn-222, water, unfiltered, picocuries per liter						
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						
82630	Meiribuzin, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
May 2013**

Code	Parameter	MCL	Well F1 05/16/2013	Well F2 05/14/2013	Well F3 05/13/2013	Well F4 05/14/2013	Well F5 05/14/2013
	Sampling date						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter						
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		472	450	496	720	1040
90851	Triholmethanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes:

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
October 2014**

Code	Parameter	MCL	Well F1 10/14/2014	Well F2 10/15/2014	Well F3 10/15/2014	Well F4 10/14/2014	Well F5 10/14/2014
3	Sampling date						
10	Temperature, water, degrees Celsius		23.9	23.2		22.2	20.9
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		442	451	442	638	1160
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		1.1	0.2	0.2	1.1	0.00008
300	Dissolved oxygen, water, unfiltered, milligrams per liter		9.4	9.5	9.6	7.6	7.1
400	pH, water, unfiltered, field, standard units		9.3	9.4	9.4	7.9	7.5
403	pH, water, unfiltered, laboratory, standard units		0.1	0.1	M	4.4	39
405	Carbon dioxide, water, unfiltered, milligrams per liter		19	24	24.2	0.4	0.3
452	Carbonate, water filtered, inflection-point titration method, field, milligrams per liter		124	122	116	109	306
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter		< 0.20	< 0.23	< 0.11	3.8	4.8
602	Total nitrogen, water, filtered, milligrams per liter		0.12	0.15	< 0.05	< 0.07	< 0.07
607	Organic nitrogen, water, filtered, milligrams per liter		0.04	0.04	0.02	< 0.01	< 0.01
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
613	Nitrate, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.040	< 0.040	< 0.040	3.73	4.73
618	Nitrite, water, filtered, milligrams per liter as nitrogen		0.15	0.19	< 0.07	0.07	0.07
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		< 0.040	< 0.040	< 0.040	3.73	4.73
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		0.095	0.496	0.169	0.238	0.304
660	Orthophosphate, water, filtered, milligrams per liter		0.04	0.16	0.06	0.09	0.10
666	Phosphorus, water, filtered, milligrams per liter		0.031	0.162	0.055	0.078	0.099
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus						
681	Organic carbon, water, filtered, milligrams per liter		3.28	3.51	2.66	149	358
900	Hardness, water, milligrams per liter as calcium carbonate					59	106
904	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate					56	101
915	Calcium, water, filtered, milligrams per liter		1.26	1.26	0.986	48.0	97.8
925	Magnesium, water, filtered, milligrams per liter		0.032	0.085	0.043	6.92	27.4
930	Sodium, water, filtered, milligrams per liter		108	112	108	72.0	124
931	Sodium adsorption ratio, water, number		26.1	26.1	28.8	2.57	2.84
932	Sodium fraction of cations, water, percent in equivalents of major cations		98	98	99	51	43
935	Potassium, water, filtered, milligrams per liter		0.33	0.48	0.31	3.08	4.54
940	Chloride, water, filtered, milligrams per liter	600	50.5	53.3	48.4	121	93.2
945	Sulfate, water, filtered, milligrams per liter	600	8.99	9.65	7.37	32.0	184
950	Fluoride, water, filtered, milligrams per liter	2 (b)	6.67	7.85	7.00	0.14	0.40
955	Silica, water, filtered, milligrams per liter		20.5	18.7	14.0	20.6	26.8
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	33.1	44.3	41.0	0.7	1.1
1005	Barium, water, filtered, micrograms per liter	1000 (d)	1.8	1.9	1.7	193	46.7
1010	Beryllium, micrograms per liter	4 (e)					
1020	Boron, water, filtered, micrograms per liter		2230	2050	2080	92	202
1025	Cadmium, micrograms per liter	5 (f)					
1030	Chromium, micrograms per liter	50 (g)					
1035	Cobalt, micrograms per liter						
1040	Copper, micrograms per liter	1000 (h)					
1046	Iron, water, filtered, micrograms per liter	300	10.5	32.4	< 4.0	< 4.0	< 4.0
1049	Lead, micrograms per liter						
1056	Manganese, water, filtered, micrograms per liter	50	0.68	1.21	0.60	0.63	< 0.20
1057	Thallium, micrograms per liter	2 (i)					
1060	Molybdenum, micrograms per liter						
1065	Nickel, micrograms per liter	100 (j)					
1075	Silver, micrograms per liter	100 (k)					
1080	Strontium, water, filtered, micrograms per liter		8.2	9.0	18.5	702	529
1085	Vanadium, micrograms per liter						
1090	Zinc, micrograms per liter	5000 (l)					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
October 2014**

Code	Parameter	MCL	Well F1 10/14/2014	Well F2 10/15/2014	Well F3 10/15/2014	Well F4 10/14/2014	Well F5 10/14/2014
	Sampling date						
1095	Antimony, micrograms per liter	6 (m)					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	53.9	163	36.2	3.2	< 3.0
1130	Lithium, water, filtered, micrograms per liter		5.93	3.80	3.11	5.30	3.92
1145	Selenium, micrograms per liter	50 (o)					
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter		0.2	R 0.1	0.2	0.3	6.8
22703	Uranium, natural, micrograms per liter						
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		138	135	142	93.3	256
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter						
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter						
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5					
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter						
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter						
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter						
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter						
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150					
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1					
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70					
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter						
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300					
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter						
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter						
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter						
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5					
34476	Tetrachloroethane, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200					
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5					
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1					
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600					
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5					
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter						
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	10					
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5					

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
October 2014**

Code	Parameter	MCL	Well F1 10/14/2014	Well F2 10/15/2014	Well F3 10/15/2014	Well F4 10/14/2014	Well F5 10/14/2014
	Sampling date						
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter	5					
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter						
34699	Naphthalene, water, unfiltered, recoverable, micrograms per liter						
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5					
38454	Dicropophos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		135	141	137	90.2	251
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5					
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5					
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter						
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern		1.740	4.230	1.200	44.25	94.53
49934	C-14, counting error, water, filtered, percent modern		0.050	0.050	0.050	0.190	0.330
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter						
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter						
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter						
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter						
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter						
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metaxyl, water, filtered, recoverable, micrograms per liter						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutani, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
October 2014**

Code	Parameter	MCL	Well F1 10/14/2014	Well F2 10/15/2014	Well F3 10/15/2014	Well F4 10/14/2014	Well F5 10/14/2014
	Sampling date						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705	Dietoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cofiline, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Antraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menthol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						
62083	Diethoxyonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfnylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfnylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter	6					
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	1500	289	287	288	371	751
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter		280	290	269	376	731
70301	Residue, water, filtered, sum of constituents, milligrams per liter		0.047	0.048	0.021	< 0.013	< 0.013
70303	Residue, water, filtered, tons per acre-foot						
71846	Ammonia, water, filtered, milligrams per liter as NH4						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
October 2014**

Code	Parameter	MCL	Well F1 10/14/2014	Well F2 10/15/2014	Well F3 10/15/2014	Well F4 10/14/2014	Well F5 10/14/2014
	Sampling date						
71851	Nitrate, water, filtered, milligrams per liter		< 0.177	< 0.177	< 0.177	16.5	20.9
71856	Nitrite, water, filtered, milligrams per liter	45 (g)	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
71865	Iodide, water, filtered, milligrams per liter		0.081	0.088	0.067	0.001	0.008
71870	Bromide, water, filtered, milligrams per liter		0.104	0.133	0.125	0.401	0.322
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter						
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter						
77041	Carbon disulfide, water, unfiltered, micrograms per liter						
77093	dis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6					
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100					
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter						
77168	1,1-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter						
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter						
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter						
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter						
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter						
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter						
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter						
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter						
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter						
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter						
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter						
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter						
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05					
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter						
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter						
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter						
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81552	Acetone, water, unfiltered, recoverable, micrograms per liter						
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter						
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter						
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter						
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter						
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter						
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter						
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter						
82081	C-13/C-12 ratio, water, unfiltered, per mil		-9.78	-11.09	-10.98	-15.09	-15.03
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-53.90	-54.40	-54.80	-48.60	-56.80
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-8.40	-8.40	-8.30	-7.11	-7.58
82303	Rn-222, water, unfiltered, picocuries per liter						
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter						
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
Temecula Creek Well (8S/2W-15F1-5)
October 2014**

Code	Parameter	MCL	Well F1 10/14/2014	Well F2 10/15/2014	Well F3 10/15/2014	Well F4 10/14/2014	Well F5 10/14/2014
	Sampling date						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuflufenon, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propylamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter						
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		489	502	491	673	1190
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caifeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes:

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).
E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

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ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

APPENDIX C-4

**VDC RECHARGE BASIN
GROUNDWATER MONITORING WELL**

Site Description

VDC Recharge Basin Groundwater Monitoring Well (8S/1W-6R1-6)

LOCATION: Latitude 33° 30' 01.7", longitude 117° 00' 57.8" (NAD83) in NW1/4 SE1/4 SE1/4 Section 6, T8S, R1W, Riverside County, California. Well is located off Pauba Road on Winner's Circle near Rancho California Water District VDC Recharge Basin in Temecula, California.

SITE INFORMATION: Land-surface altitude is 1252.78 feet above mean sea level (NAVD88).

WATER-LEVEL RECORD: The period of record for intermittent and daily water-level measurements is listed below.

State well number	USGS station number	Intermittent water-level	Daily water-level
8S/1W-6R1	333001117005701	1/28/2014 to present	4/24/2014 to present
8S/1W-6R2	333001117005702	1/28/2014 to present	4/24/2014 to present
8S/1W-6R3	333001117005703	1/28/2014 to present	4/24/2014 to present
8S/1W-6R4	333001117005704	1/28/2014 to present	—
8S/1W-6R5	333001117005705	1/28/2014 to present	4/24/2014 to present
8S/1W-6R6	333001117005706	1/28/2014 to present	—

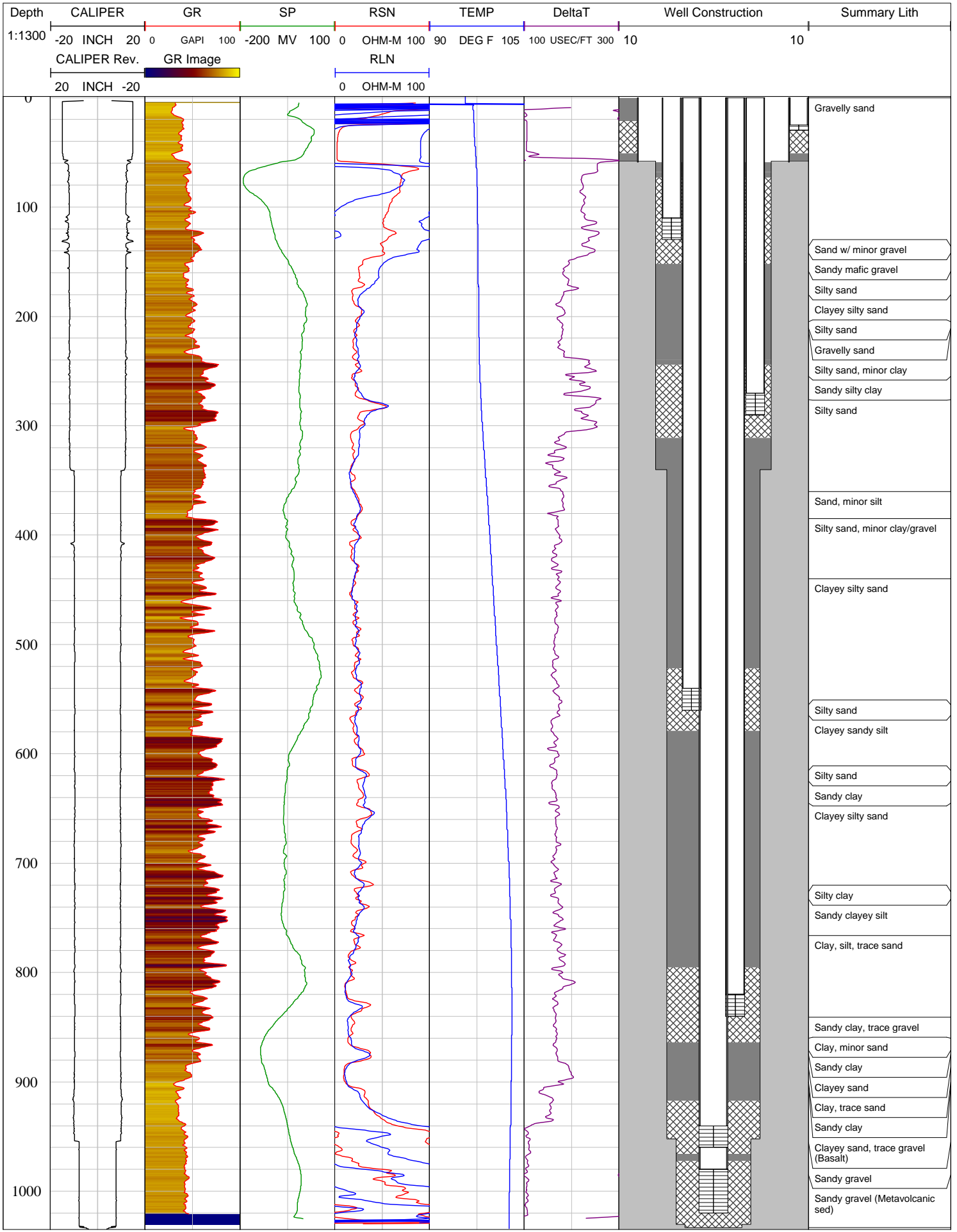
TOPOGRAPHIC MAP: USGS Bachelor Mountain, California, 7.5 minute series.

WELL SUMMARY INFORMATION:

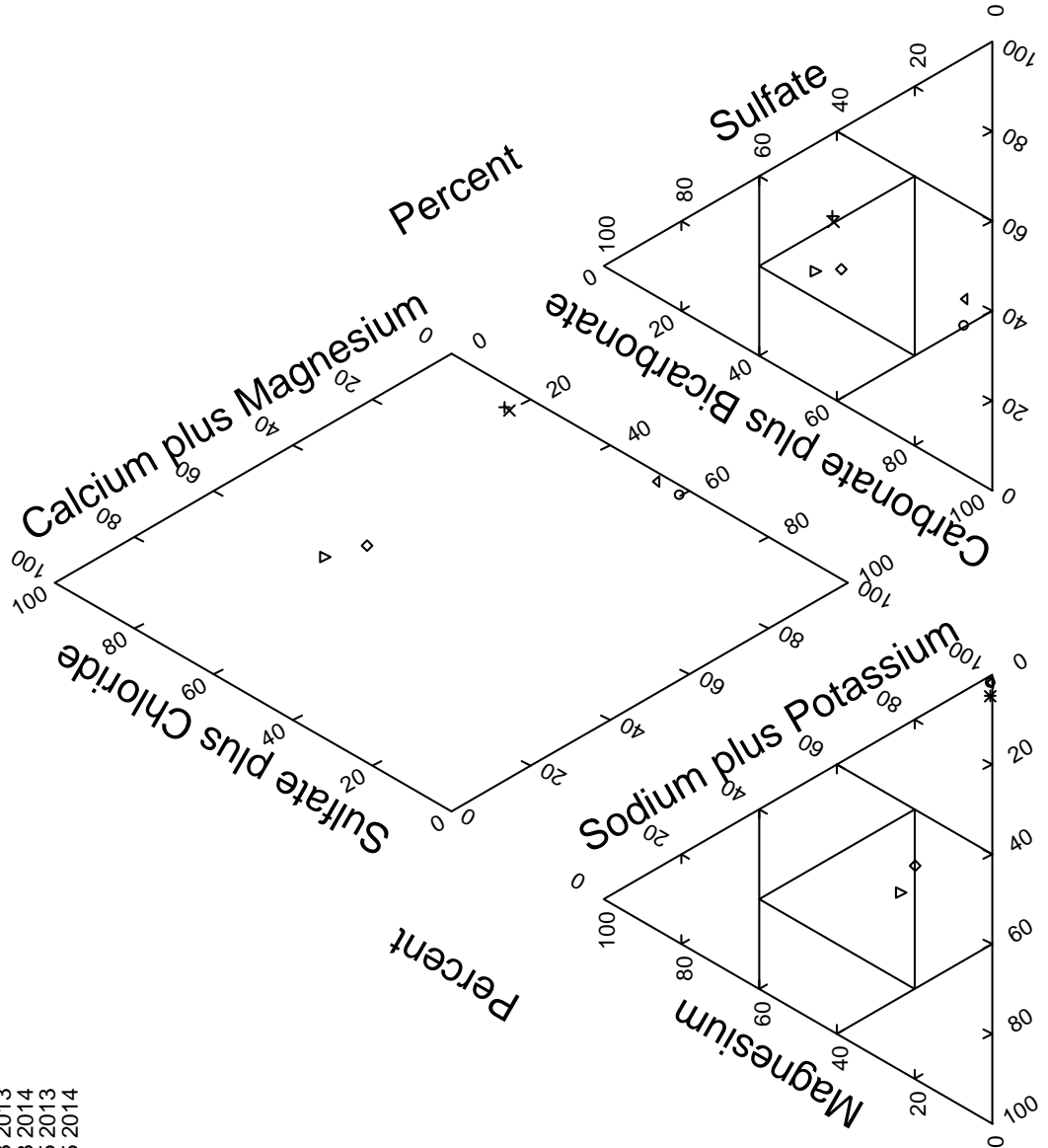
State well number	USGS station number	Hole depth (ft)	Perforation depth (ft)	Casing size and type	Date drilled
8S/1W-6R1	333001117005701	1033	940-960, 980-1020	3" PVC	8/31/13
8S/1W-6R2	333001117005702	1033	820-840	2" PVC	8/31/13
8S/1W-6R3	333001117005703	1033	540-560	2" PVC	8/31/13
8S/1W-6R4	333001117005704	1033	270-290	2" PVC	8/31/13
8S/1W-6R5	333001117005705	1033	110-130	2" PVC	8/31/13
8S/1W-6R6	333001117005706	1033	25-30	2" PVC	8/31/13

ADDITIONAL INFORMATION:

Additional information can also be found at the following web site:
<http://ca.water.usgs.gov/temecula/>.

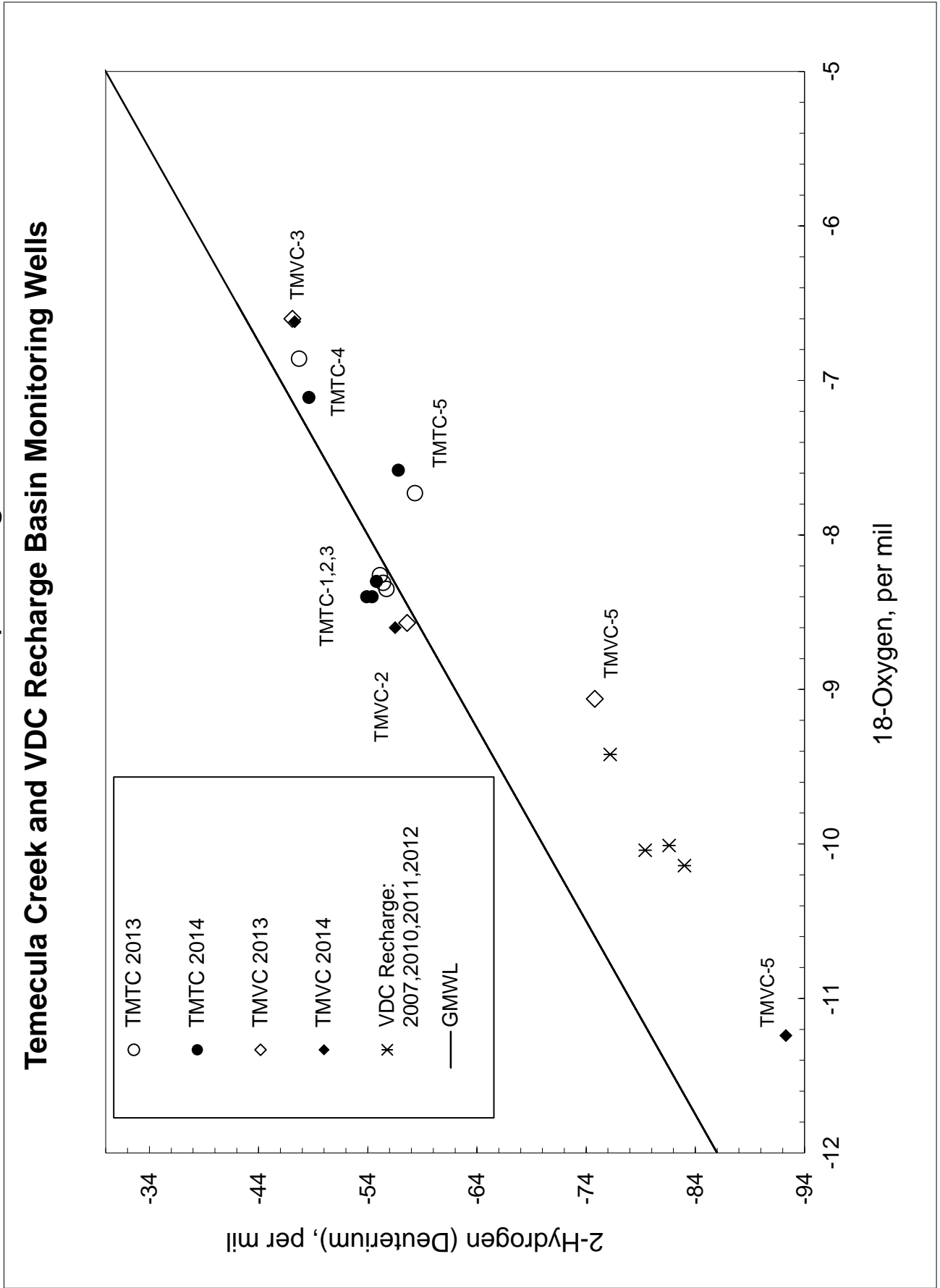


- Explanation**
- TMVC-2 2013
 - △ TMVC-2 2014
 - + TMVC-3 2013
 - x TMVC-3 2014
 - ◇ TMVC-5 2013
 - ▽ TMVC-5 2014



Stable Isotope Diagram

Temecula Creek and VDC Recharge Basin Monitoring Wells



Source: USGS California Water Science Center.

**End-of Month Piezometric Head for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
(elevation in feet, MSL)**

April 2014 through December 2020

Month	Well R1	Well R2	Well R3	Well R4	Well R5	Well R6
Jan 14	---	---	---	---	---	---
Feb	---	---	---	---	---	---
Mar	---	---	---	---	---	---
Apr	939.73	929.94	929.69	---	1173.48	---
May	937.49	927.42	934.85	---	1171.89	---
Jun	935.77	925.67	936.91	---	1171.42	---
Jul	934.24	924.06	933.43	---	1171.62	---
Aug	932.84	922.66	934.05	---	1171.64	---
Sep	931.73	921.45	932.01	---	1171.26	---
Oct	931.08	920.88	935.28	---	1170.65	---
Nov	931.08	920.79	934.89	---	1172.75	---
Dec	931.13	920.92	948.71	---	1170.52	---
Jan 15	932.55	922.67	956.25	---	1169.29	---
Feb	933.94	923.95	953.88	---	1166.84	---
Mar	935.04	925.05	952.80	---	1166.63	---
Apr	935.14	924.92	943.37	---	1166.14	---
May	934.99	924.91	946.23	---	1166.53	---
Jun	934.91	924.71	933.17	---	1167.14	---
Jul	934.05	923.60	932.61	---	1167.88	---
Aug	932.59	921.96	932.07	---	1166.79	---
Sep	932.09	921.74	936.75	---	1164.85	---
Oct	932.41	922.12	930.72	---	1166.33	---
Nov	933.04	922.64	934.03	---	1172.76	---
Dec	933.91	923.36	944.94	---	1183.69	---
Jan 16	934.61	924.30	952.46	---	1184.30	---
Feb	935.00	924.77	945.34	---	1179.89	---
Mar	935.60	925.36	946.98	---	1178.29	---
Apr	935.78	925.47	950.56	---	1174.93	---
May	935.74	925.43	941.40	---	1173.72	---
Jun	935.29	925.08	939.42	---	1174.88	---
Jul	935.01	924.71	944.09	---	1178.05	---
Aug	934.30	923.95	940.87	---	1177.54	---
Sep	933.32	922.88	938.03	---	1177.28	---
Oct	932.55	922.09	942.87	---	1177.64	---
Nov	931.88	921.37	953.00	---	1175.88	---
Dec	932.00	921.69	966.78	971.38	1174.55	---
Jan 17	933.94	924.27	976.82	979.08	1175.22	---
Feb	936.52	926.74	981.50	982.26	1174.06	---
Mar	939.22	929.75	963.97	966.84	1173.40	---
Apr	941.61	931.89	955.30	---	1173.92	---
May	943.31	933.54	953.03	---	1175.35	---
Jun	943.92	933.80	951.81	---	1175.17	---
Jul	943.76	933.65	966.54	971.03	1178.78	---
Aug	944.01	934.09	977.79	978.38	1184.53	---
Sep	944.98	935.17	979.59	977.83	1181.31	---
Oct	946.05	936.39	979.57	977.77	1178.10	---
Nov	947.60	937.95	979.26	978.13	1182.04	---
Dec	949.13	939.48	985.26	985.35	1186.77	---

**End-of Month Piezometric Head for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
(elevation in feet, MSL)**

April 2014 through December 2020

Month	Well R1	Well R2	Well R3	Well R4	Well R5	Well R6
Jan 18	951.23	941.77	984.83	988.98	1191.46	--
Feb	952.14	942.57	980.33	990.04	1186.74	--
Mar	953.52	944.08	977.85	983.51	1181.70	--
Apr	954.74	945.26	965.33	974.28	1176.38	--
May	955.31	945.70	969.41	981.79	1173.97	--
Jun	956.54	946.86	968.95	980.94	1171.18	--
Jul	957.90	948.38	971.10	982.35	1172.12	--
Aug	959.14	949.59	968.69	980.20	1172.28	--
Sep	959.82	950.27	968.00	979.92	1170.87	--
Oct	961.18	951.47	961.78	971.83	1170.29	--
Nov	961.43	951.74	959.11	970.08	1168.91	--
Dec	962.03	952.38	961.90	968.08	1169.51	--
Jan 19	962.28	952.53	970.38	974.95	1167.19	--
Feb	963.41	953.72	988.83	990.93	1167.16	--
Mar	965.11	955.64	986.58	989.10	1175.18	--
Apr	966.56	956.85	976.44	986.26	1176.95	--
May	966.84	957.06	968.58	981.08	1179.53	--
Jun	965.35	954.96	950.47	964.95	1181.74	--
Jul	962.11	951.30	958.46	977.06	1186.72	--
Aug	960.40	949.87	959.80	975.31	1192.36	--
Sep	960.07	949.74	958.72	972.20	1200.10	--
Oct	958.72	948.32	955.44	969.35	1196.68	--
Nov	956.92	946.26	971.20	1068.54	1195.14	--
Dec	957.00	946.90	993.18	1053.80	1201.24	--
Jan 20	958.14	948.29	984.97	1045.13	1198.30	--
Feb	959.40	949.60	994.90	1045.69	1194.12	--
Mar	962.96	953.50	1003.74	1053.46	1201.57	--
Apr	966.21	957.15	1000.77	1057.55	1202.41	--
May	968.38	959.03	976.75	1047.31	1203.33	--
Jun	968.07	958.27	963.15	1044.19	1204.96	--
Jul	965.89	955.54	970.41	1050.89	1201.02	--
Aug	964.06	953.71	966.45	1045.91	1191.91	--
Sep	962.02	951.66	968.49	1044.11	1184.82	--
Oct	960.78	950.53	968.71	1041.62	1180.29	--
Nov	960.10	949.71	967.05	1037.56	1177.71	--
Dec	960.23	950.24	976.88	1040.56	1177.22	--

Notes:

(1) Data reported as daily median value for period of record, where available.

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
November 2013**

Code	Parameter	MCL	Well R1	Well R2 11/06/2013	Well R3 11/07/2013	Well R4	Well R5 11/05/2013	Well R6
3	Sampling depth, feet							
10	Temperature, water, degrees Celsius			20.1	21.7		19.7	
28	Agency analyzing sample, code			80020	80020		80020	
59	Flow rate, instantaneous, gallons per minute							
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius			418	764		803	
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter			M	M		0.00002	
300	Dissolved oxygen, water, unfiltered, milligrams per liter			< 0.2	0.4		1.0	
400	pH, water, unfiltered, field, standard units			9.8	8.9		7.7	
403	pH, water, unfiltered, laboratory, standard units			9.8	8.8		8.0	
405	Carbon dioxide, water, unfiltered, milligrams per liter			M	0.2		4.8	
452	Carbonate, water, filtered, inflection-point titration method, milligrams per liter							
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter							
602	Total nitrogen, water, filtered, milligrams per liter			< 0.19	< 0.11		0.32	
607	Organic nitrogen, water, filtered, milligrams per liter			0.12	< 0.07		< 0.08	
608	Ammonia, water, filtered, milligrams per liter as nitrogen			0.02	< 0.01		< 0.01	
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		< 0.001	< 0.001		< 0.001	
618	Nitrate, water, filtered, milligrams per liter as nitrogen			< 0.040	< 0.040		0.236	
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen			0.15	< 0.07		0.08	
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen			< 0.040	< 0.040		0.236	
660	Orthophosphate, water, filtered, milligrams per liter			6.91	0.094		0.46	
666	Phosphorus, water, filtered, milligrams per liter			2.45	0.03		0.17	
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus			2.25	0.031		0.15	
681	Organic carbon, water, filtered, milligrams per liter			0.61	0.60		1.16	
900	Hardness, water, milligrams per liter as calcium carbonate			3.85	16.9		2.11	
904	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						88	
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						76	
915	Calcium, water, filtered, milligrams per liter			1.13	5.99		52.5	
925	Magnesium, water, filtered, milligrams per liter			0.246	0.448		19.4	
930	Sodium, water, filtered, milligrams per liter			86.8	146		85.2	
931	Sodium adsorption ratio, water, number			19.3	15.6		2.55	
932	Sodium fraction of cations, water, percent in equivalents of major cations			98	95		46	
935	Potassium, water, filtered, milligrams per liter			0.50	1.14		4.14	
940	Chloride, water, filtered, milligrams per liter	600		37.5	96.6		82.1	
945	Sulfate, water, filtered, milligrams per liter	600		12.7	137		147	
950	Fluoride, water, filtered, milligrams per liter	2 (b)		2.26	1.57		0.34	
955	Silica, water, filtered, milligrams per liter			21.4	9.02		13.8	
1000	Arsenic, water, filtered, micrograms per liter	10 (c)		40.8	1.9		1.1	
1005	Barium, water, filtered, micrograms per liter	1000 (d)		3.5	22.4		14.6	
1010	Beryllium, micrograms per liter	4 (e)						
1020	Boron, water, filtered, micrograms per liter			1050	848		123	
1025	Cadmium, micrograms per liter	5 (f)						
1030	Chromium, micrograms per liter	50 (g)						
1035	Cobalt, micrograms per liter							
1040	Copper, micrograms per liter	1000 (h)						
1046	Iron, water, filtered, micrograms per liter	300		334	38.2		< 4.0	
1049	Lead, micrograms per liter							
1056	Manganese, water, filtered, micrograms per liter	50		7.25	1.73		3.40	
1057	Thallium, micrograms per liter	2 (i)						
1060	Molybdenum, micrograms per liter							
1065	Nickel, micrograms per liter	100 (j)						
1075	Silver, micrograms per liter	100 (k)						
1080	Strontium, water, filtered, micrograms per liter			5.7	109		524	
1085	Vanadium, micrograms per liter							
1090	Zinc, micrograms per liter	5000 (l)						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
November 2013**

Code	Parameter	MCL	Well R1	Well R2 11/06/2013	Well R3 11/07/2013	Well R4	Well R5 11/05/2013	Well R6
	Sampling date							
1095	Antimony, micrograms per liter							
1106	Aluminum, water, filtered, micrograms per liter	6 (m)						
1130	Lithium, water, filtered, micrograms per liter	1000 (n)		432	79.3		8.8	
1145	Selenium, micrograms per liter	50 (o)		1.03	0.94		7.55	
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter							
4025	Hexazinone, water, filtered, recoverable, micrograms per liter							
4029	Bromacil, water, filtered, recoverable, micrograms per liter							
4036	Simazine, water, filtered, recoverable, micrograms per liter							
4036	Prometryn, water, filtered, recoverable, micrograms per liter							
4037	Prometon, water, filtered, recoverable, micrograms per liter							
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter							
4095	Fonofos, water, filtered, recoverable, micrograms per liter							
7000	Tritium, water, unfiltered, picocuries per liter			R-0.1	2.3		16	
22703	Uranium, natural, micrograms per liter							
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5), titration, laboratory, milligrams per liter as calcium carbonate			121	69		136	
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter							
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter							
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5						
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter							
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter							
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter							
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter							
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150						
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1						
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter							
34221	Anthracene, water, filtered, recoverable, micrograms per liter							
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)						
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter							
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70						
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter							
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300						
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter							
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter							
34409	Isophorone, water, filtered, recoverable, micrograms per liter							
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter							
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter							
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5						
34443	Naphthalene, water, filtered, recoverable, micrograms per liter							
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter							
34466	Phenol, water, filtered, recoverable, micrograms per liter							
34470	Pyrene, water, filtered, recoverable, micrograms per liter							
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5						
34476	Tetrachloroethane, water, filtered, recoverable, micrograms per liter							
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150						
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5						
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6						
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200						
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5						
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1						
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600						
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5						
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10						
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5						
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter							

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
November 2013**

Code	Parameter	MCL	Well R1	Well R2 11/06/2013	Well R3 11/07/2013	Well R4	Well R5 11/05/2013	Well R6
	Sampling date							
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter							
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter	5						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter							
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter							
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5						
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter							
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter							
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate			109	64		123	
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5						
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5						
39381	Dieldrin, water, filtered, recoverable, micrograms per liter							
39415	Mirelchlor, water, filtered, recoverable, micrograms per liter							
39532	Malathion, water, filtered, recoverable, micrograms per liter							
39572	Diazinon, water, filtered, recoverable, micrograms per liter							
39632	Atrazine, water, filtered, recoverable, micrograms per liter							
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter							
46342	Alachlor, water, filtered, recoverable, micrograms per liter							
49260	Acetochlor, water, filtered, recoverable, micrograms per liter							
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
49933	C-14, water, filtered, percent modern			5.37	27.33		92.75	
49934	C-14, counting error, water, filtered, percent modern			0.09	0.15		0.21	
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter							
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter							
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter							
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter							
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter							
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter							
50305	Caffeine, water, filtered, recoverable, micrograms per liter							
50359	Metolaxyl, water, filtered, recoverable, micrograms per liter							
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter							
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter	6						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter							
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter							
61593	Iprodione, water, filtered, recoverable, micrograms per liter							
61594	Isotenphos, water, filtered, recoverable, micrograms per liter							
61596	Metolaxyl, water, filtered, recoverable, micrograms per liter							
61598	Methidathion, water, filtered, recoverable, micrograms per liter							
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter							
61601	Phosmet, water, filtered, recoverable, micrograms per liter							
61610	Tribuphos, water, filtered, recoverable, micrograms per liter							
61618	2-Chloro-2,6-diethylacetamide, water, filtered, recoverable, micrograms per liter							
61620	2-Ethyl-6-methylamine, water, filtered, recoverable, micrograms per liter							
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter							
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter							
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter							
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter							
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter							
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter							
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter							
61662	Malaoxon, water, filtered, recoverable, micrograms per liter							
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter							
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter							

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
November 2013**

Code	Parameter	MCL	Well R1	Well R2 11/06/2013	Well R3 11/07/2013	Well R4	Well R5 11/05/2013	Well R6
	Sampling date							
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter							
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter							
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter							
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter							
62005	Cotinine, water, filtered, recoverable, micrograms per liter							
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter							
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter							
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter							
62057	3-beta-Coprostano, water, filtered, recoverable, micrograms per liter							
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter							
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter							
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter							
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter							
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter							
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter							
62064	Acetophenone, water, filtered, recoverable, micrograms per liter							
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter							
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter							
62067	Benzophenone, water, filtered, recoverable, micrograms per liter							
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter							
62070	Camphor, water, filtered, recoverable, micrograms per liter							
62071	Carbazole, water, filtered, recoverable, micrograms per liter							
62072	Cholesterol, water, filtered, recoverable, micrograms per liter							
62073	D-Limonene, water, filtered, recoverable, micrograms per liter							
62075	Hexahydroxamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter							
62076	Indole, water, filtered, recoverable, micrograms per liter							
62077	Isoborneol, water, filtered, recoverable, micrograms per liter							
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter							
62079	Isouquinoline, water, filtered, recoverable, micrograms per liter							
62080	Menthol, water, filtered, recoverable, micrograms per liter							
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter							
62082	DEET, water, filtered, recoverable, micrograms per liter							
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter							
62084	p-Cresol, water, filtered, recoverable, micrograms per liter							
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter							
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter							
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter							
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter							
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter							
62090	Triclosan, water, filtered, recoverable, micrograms per liter							
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter							
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter							
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter							
62166	Fipronil, water, filtered, recoverable, micrograms per liter							
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter							
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter							
62169	Desulfinyfipronil amide, water, filtered, recoverable, micrograms per liter							
62170	Desulfinyfipronil, water, filtered, recoverable, micrograms per liter							
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter							
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6						
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500		253	442		481	
70301	Residue, water, filtered, sum of constituents, milligrams per liter			237	438		481	
70303	Residue, water, filtered, tons per acre-foot							
71846	Ammonia, water, filtered, milligrams per liter as NH4			0.03	< 0.013		< 0.013	

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
November 2013**

Code	Parameter	MCL	Well R1	Well R2	Well R3	Well R4	Well R5	Well R6
	Sampling date			11/06/2013	11/07/2013		11/05/2013	
71851	Nitrate, water, filtered, milligrams per liter	45 (g)		< 0.177	< 0.177		1.04	
71856	Nitrite, water, filtered, milligrams per liter			< 0.003	< 0.003		< 0.003	
71865	Iodide, water, filtered, milligrams per liter			0.028	0.011		0.015	
71870	Bromide, water, filtered, milligrams per liter			0.096	0.352		0.151	
72019	Depth to water level, feet below land surface							
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter							
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter							
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, recoverable, micrograms per liter							
77041	Carbon disulfide, water, unfiltered, micrograms per liter							
77093	cis-1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	6						
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter							
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100						
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter							
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter							
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter							
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter							
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter							
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter							
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter							
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter							
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter							
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter							
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter							
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter							
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter							
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter							
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter							
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter							
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter							
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter							
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter							
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter							
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter							
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05						
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter							
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter							
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter							
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter							
81552	Acetone, water, unfiltered, recoverable, micrograms per liter							
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter							
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter							
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter							
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter							
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter							
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter							
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter							
82081	C-13/C-12 ratio, water, unfiltered, per mil			-13.51	-13.13		-8.61	
82085	Deuterium/Protium ratio, water, unfiltered, per mil			-57.60	-47.10		-74.80	
82303	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil			-8.57	-6.60		-9.06	
82346	Rn-222, water, unfiltered, picocuries per liter							
82346	Ethion, water, filtered, recoverable, micrograms per liter							
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter							
82630	Meiribuzin, water, filtered, recoverable, micrograms per liter							

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S1W-6R1-6)
November 2013**

Code	Parameter	MCL	Well R1	Well R2 11/06/2013	Well R3 11/07/2013	Well R4	Well R5 11/05/2013	Well R6
	Sampling date							
82660	2,6-Diethylamine, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter			395	739		770	
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius							
90851	Triholomethanes, water, unfiltered, calcd, micrograms per liter							
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery							
99584	Calfeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery							
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery							
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery							
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery							
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery							
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery							
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery							
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery							

Notes:

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
October 2014**

Code	Parameter	MCL	Well R1	Well R2 10/15/2014	Well R3 10/15/2014	Well R4	Well R5 10/15/2014	Well R6
3	Sampling date							
10	Sampling depth, feet							
10	Temperature, water, degrees Celsius			21.1	21.2		20.2	
28	Agency analyzing sample, code			80020	80020		80020	
59	Flow rate, instantaneous, gallons per minute							
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius							
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter			328	586		882	
300	Dissolved oxygen, water, unfiltered, milligrams per liter			M	M		0.00004	
400	pH, water, unfiltered, field, standard units			9.8	8.9		7.4	
403	pH, water, unfiltered, laboratory, standard units			9.7	8.8		7.8	
405	Carbon dioxide, water, unfiltered, milligrams per liter			M	0.2		10	
452	Carbonate, water, filtered, inflection-point titration method, milligrams per liter			22.5	3.9		0.3	
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter			62.4	75.9		158	
602	Total nitrogen, water, filtered, milligrams per liter			< 0.12	< 0.11		0.37	
607	Organic nitrogen, water, filtered, milligrams per liter			0.07	< 0.07		< 0.08	
608	Ammonia, water, filtered, milligrams per liter as nitrogen			0.02	< 0.01		< 0.01	
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		< 0.001	< 0.001		< 0.001	
618	Nitrate, water, filtered, milligrams per liter as nitrogen			< 0.040	< 0.040		0.291	
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen			0.09	< 0.07		0.08	
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen			< 0.040	< 0.040		0.291	
660	Orthophosphate, water, filtered, milligrams per liter			0.289	0.031		0.189	
666	Phosphorus, water, filtered, milligrams per liter			0.10	0.02		0.06	
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus			0.094	0.010		0.062	
881	Organic carbon, water, filtered, milligrams per liter							
900	Hardness, water, milligrams per liter as calcium carbonate			3.29	18.2		277	
904	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						147	
905	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						141	
915	Calcium, water, filtered, milligrams per liter			1.20	6.48		67.7	
925	Magnesium, water, filtered, milligrams per liter			0.067	0.446		26.1	
930	Sodium, water, filtered, milligrams per liter			77.4	153		80.8	
931	Sodium adsorption ratio, water, number			18.6	15.7		2.11	
932	Sodium fraction of cations, water, percent in equivalents of major cations			98	94		38	
935	Potassium, water, filtered, milligrams per liter			0.36	1.11		4.84	
940	Chloride, water, filtered, milligrams per liter			41.4	94.6		83.4	
945	Sulfate, water, filtered, milligrams per liter			10.7	137		199	
950	Fluoride, water, filtered, milligrams per liter			2.29	1.54		0.33	
955	Silica, water, filtered, milligrams per liter			17.6	8.03		11.6	
1000	Arsenic, water, filtered, micrograms per liter			36.3	1.8		0.54	
1005	Barium, water, filtered, micrograms per liter			1.1	29.8		27.2	
1010	Beryllium, micrograms per liter							
1020	Boron, water, filtered, micrograms per liter			1270	887		96	
1025	Cadmium, micrograms per liter							
1030	Chromium, micrograms per liter							
1035	Cobalt, micrograms per liter							
1040	Copper, micrograms per liter							
1046	Iron, water, filtered, micrograms per liter			300	49.6		< 4.0	
1049	Lead, micrograms per liter							
1056	Manganese, water, filtered, micrograms per liter			50	1.86		< 0.20	
1057	Thallium, micrograms per liter			2 (i)				
1060	Molybdenum, micrograms per liter							
1065	Nickel, micrograms per liter							
1075	Silver, micrograms per liter			100 (j)				
1080	Strontium, water, filtered, micrograms per liter			100 (k)			732	
1085	Vanadium, micrograms per liter							
1090	Zinc, micrograms per liter			5000 (l)				

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
October 2014**

Code	Parameter	MCL	Well R1	Well R2 10/15/2014	Well R3 10/15/2014	Well R4	Well R5 10/15/2014	Well R6
1095	Antimony, micrograms per liter							
1106	Aluminum, water, filtered, micrograms per liter	6 (m)						
1130	Lithium, water, filtered, micrograms per liter	1000 (n)		170	12.9		3.3	
1145	Selenium, micrograms per liter	50 (o)		0.96	1.12		8.30	
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter							
4025	Hexazinone, water, filtered, recoverable, micrograms per liter							
4029	Bromacil, water, filtered, recoverable, micrograms per liter							
4035	Simazine, water, filtered, recoverable, micrograms per liter							
4036	Prometryn, water, filtered, recoverable, micrograms per liter							
4037	Prometon, water, filtered, recoverable, micrograms per liter							
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter							
4095	Fonofos, water, filtered, recoverable, micrograms per liter							
7000	Tritium, water, unfiltered, picocuries per liter			0.4	1.9		18	
22703	Uranium, natural, micrograms per liter							
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate			93.7	70.4		136	
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter							
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter							
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5						
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter							
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter							
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter							
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter							
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150						
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1						
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter							
34221	Anthracene, water, filtered, recoverable, micrograms per liter							
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)						
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter							
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70						
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter							
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300						
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter							
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter							
34409	Isophorone, water, filtered, recoverable, micrograms per liter							
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter							
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter							
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5						
34443	Naphthalene, water, filtered, recoverable, micrograms per liter							
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter							
34466	Phenol, water, filtered, recoverable, micrograms per liter							
34470	Pyrene, water, filtered, recoverable, micrograms per liter							
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5						
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter							
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150						
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5						
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6						
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200						
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5						
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1						
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600						
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5						
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter							
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	10						
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5						

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
October 2014**

Code	Parameter	MCL	Well R1	Well R2 10/15/2014	Well R3 10/15/2014	Well R4	Well R5 10/15/2014	Well R6
	Sampling date							
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter							
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter	5						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter							
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter							
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5						
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5						
38454	Dicropophos, water, filtered, recoverable, micrograms per liter							
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter							
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter							
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate			91.4	69.1		130	
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5						
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5						
39381	Dieldrin, water, filtered, recoverable, micrograms per liter							
39415	Metolachlor, water, filtered, recoverable, micrograms per liter							
39532	Malathion, water, filtered, recoverable, micrograms per liter							
39572	Diazinon, water, filtered, recoverable, micrograms per liter							
39632	Atrazine, water, filtered, recoverable, micrograms per liter							
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter							
46342	Alachlor, water, filtered, recoverable, micrograms per liter							
49260	Acetochlor, water, filtered, recoverable, micrograms per liter							
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
49933	C-14, water, filtered, percent modern			5.420	31.95		88.31	
49934	C-14, counting error, water, filtered, percent modern			0.080	0.120		0.210	
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter							
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter							
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter							
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter							
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter							
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter							
50305	Caffeine, water, filtered, recoverable, micrograms per liter							
50359	Metolaxyl, water, filtered, recoverable, micrograms per liter							
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter							
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter	6						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter							
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter							
61593	Iprodione, water, filtered, recoverable, micrograms per liter							
61594	Isotéphenos, water, filtered, recoverable, micrograms per liter							
61596	Metolaxyl, water, filtered, recoverable, micrograms per liter							
61598	Methidathion, water, filtered, recoverable, micrograms per liter							
61599	Myclobutani, water, filtered, recoverable, micrograms per liter							
61601	Phosmet, water, filtered, recoverable, micrograms per liter							
61610	Tribuphos, water, filtered, recoverable, micrograms per liter							
61618	2-Chloro-2',6'-diethylacetaldehyde, water, filtered, recoverable, micrograms per liter							
61620	2-Ethyl-6-methylamine, water, filtered, recoverable, micrograms per liter							
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter							
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter							
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter							
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter							
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter							
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter							
61646	Fenamiphos sulfioxide, water, filtered, recoverable, micrograms per liter							
61652	Malaoxon, water, filtered, recoverable, micrograms per liter							
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter							
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter							

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
October 2014**

Code	Parameter	MCL	Well R1	Well R2	Well R3	Well R4	Well R5	Well R6
	Sampling date		10/15/2014	10/15/2014	10/15/2014		10/15/2014	
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter							
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter							
61705	Diethoxyxyphenol, water, filtered, recoverable, micrograms per liter							
61706	Monoethoxyxyphenol, water, filtered, recoverable, micrograms per liter							
62005	Cotinine, water, filtered, recoverable, micrograms per liter							
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter							
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter							
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter							
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter							
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter							
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter							
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter							
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter							
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter							
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter							
62064	Acetophenone, water, filtered, recoverable, micrograms per liter							
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter							
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter							
62067	Benzophenone, water, filtered, recoverable, micrograms per liter							
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter							
62070	Camphor, water, filtered, recoverable, micrograms per liter							
62071	Carbazole, water, filtered, recoverable, micrograms per liter							
62072	Cholesterol, water, filtered, recoverable, micrograms per liter							
62073	D-Limonene, water, filtered, recoverable, micrograms per liter							
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter							
62076	Indole, water, filtered, recoverable, micrograms per liter							
62077	Isoborneol, water, filtered, recoverable, micrograms per liter							
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter							
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter							
62080	Menthol, water, filtered, recoverable, micrograms per liter							
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter							
62082	DEET, water, filtered, recoverable, micrograms per liter							
62083	Diethoxyonylphenol, water, filtered, recoverable, micrograms per liter							
62084	p-Cresol, water, filtered, recoverable, micrograms per liter							
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter							
62086	beta-Sigmastanol, water, filtered, recoverable, micrograms per liter							
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter							
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter							
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter							
62090	Triclosan, water, filtered, recoverable, micrograms per liter							
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter							
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter							
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter							
62166	Fipronil, water, filtered, recoverable, micrograms per liter							
62167	F-ipronil sulfide, water, filtered, recoverable, micrograms per liter							
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter							
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter							
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter							
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter							
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6						
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500		221	447		577	
70301	Residue, water, filtered, sum of constituents, milligrams per liter			206	445		554	
70303	Residue, water, filtered, tons per acre-foot							
71846	Ammonia, water, filtered, milligrams per liter as NH4			0.022	< 0.013		< 0.013	

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S/1W-6R1-6)
October 2014**

Code	Parameter	MCL	Well R1	Well R2 10/15/2014	Well R3 10/15/2014	Well R4	Well R5 10/15/2014	Well R6
	Sampling date							
71851	Nitrate, water, filtered, milligrams per liter			< 0.117	< 0.117		1.29	
71856	Nitrite, water, filtered, milligrams per liter	45 (g)		< 0.003	< 0.003		< 0.003	
71865	Iodide, water, filtered, milligrams per liter			0.029	0.009		0.001	
71870	Bromide, water, filtered, milligrams per liter			0.097	0.326		0.074	
72019	Depth to water level, feet below land surface							
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter							
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter							
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter							
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter							
77041	Carbon disulfide, water, unfiltered, micrograms per liter							
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6						
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter							
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100						
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter							
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter							
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter							
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter							
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter							
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter							
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter							
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter							
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter							
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter							
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter							
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter							
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter							
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter							
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter							
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter							
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter							
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter							
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter							
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter							
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter							
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05						
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter							
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter							
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter							
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter							
81552	Acetone, water, unfiltered, recoverable, micrograms per liter							
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter							
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter							
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter							
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter							
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter							
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter							
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter							
82081	C-13/C-12 ratio, water, unfiltered, per mil			-14.91	-13.32		-7.81	
82082	Deuterium/Protium ratio, water, unfiltered, per mil			-56.50	-47.30		-92.30	
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil			-8.60	-6.62		-11.24	
82303	Rn-222, water, unfiltered, picocuries per liter							
82346	Ethion, water, filtered, recoverable, micrograms per liter							
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter							
82630	Meiribuzin, water, filtered, recoverable, micrograms per liter							

Source: USGS California Water Science Center.

**Water Quality Data for Multiple Depth Monitoring Well
VDC Recharge Basin Well (8S1W-6R1-6)
October 2014**

Code	Parameter	MCL	Well R1	Well R2	Well R3	Well R4	Well R5	Well R6
	Sampling date			10/15/2014	10/15/2014		10/15/2014	
82660	2,6-Diethylamine, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter							
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter			365	782		911	
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius							
90851	Triholomethanes, water, unfiltered, calcd, micrograms per liter							
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery							
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery							
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery							
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery							
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery							
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery							
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery							
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery							
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery							

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

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ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

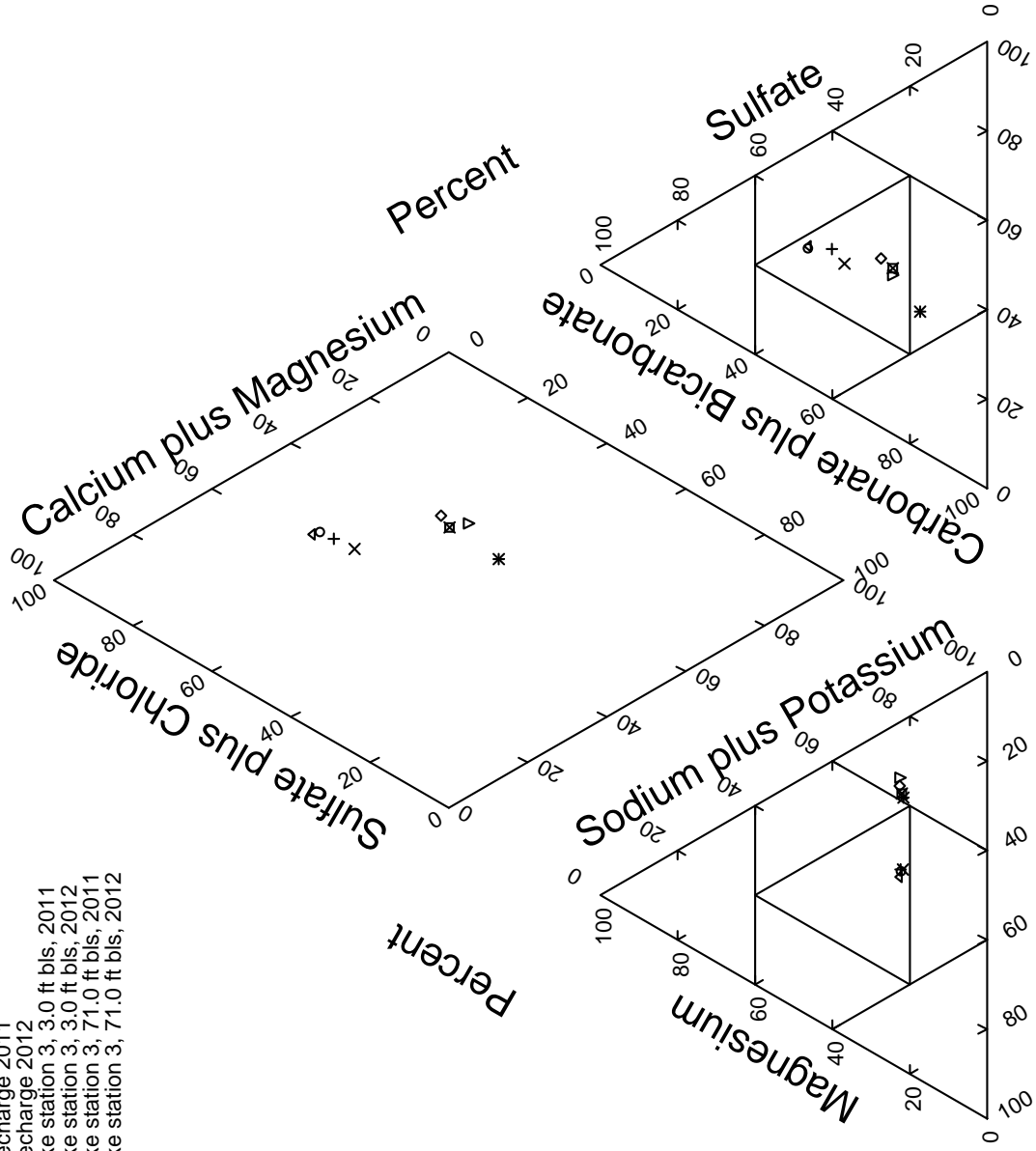
APPENDIX D-1

**WATER QUALITY DATA FOR IMPORTED WATER
DELIVERED TO RCWD UPPER VDC RECHARGE BASINS**

Tri-Linear Diagram VDC Recharge and Vail Lake

Explanation

- VDC Recharge 2007
- △ VDC Recharge 2010
- + VDC Recharge 2011
- × VDC Recharge 2012
- ◇ Vail Lake station 3, 3.0 ft bls, 2011
- ▽ Vail Lake station 3, 3.0 ft bls, 2012
- ▣ Vail Lake station 3, 71.0 ft bls, 2011
- * Vail Lake station 3, 71.0 ft bls, 2012

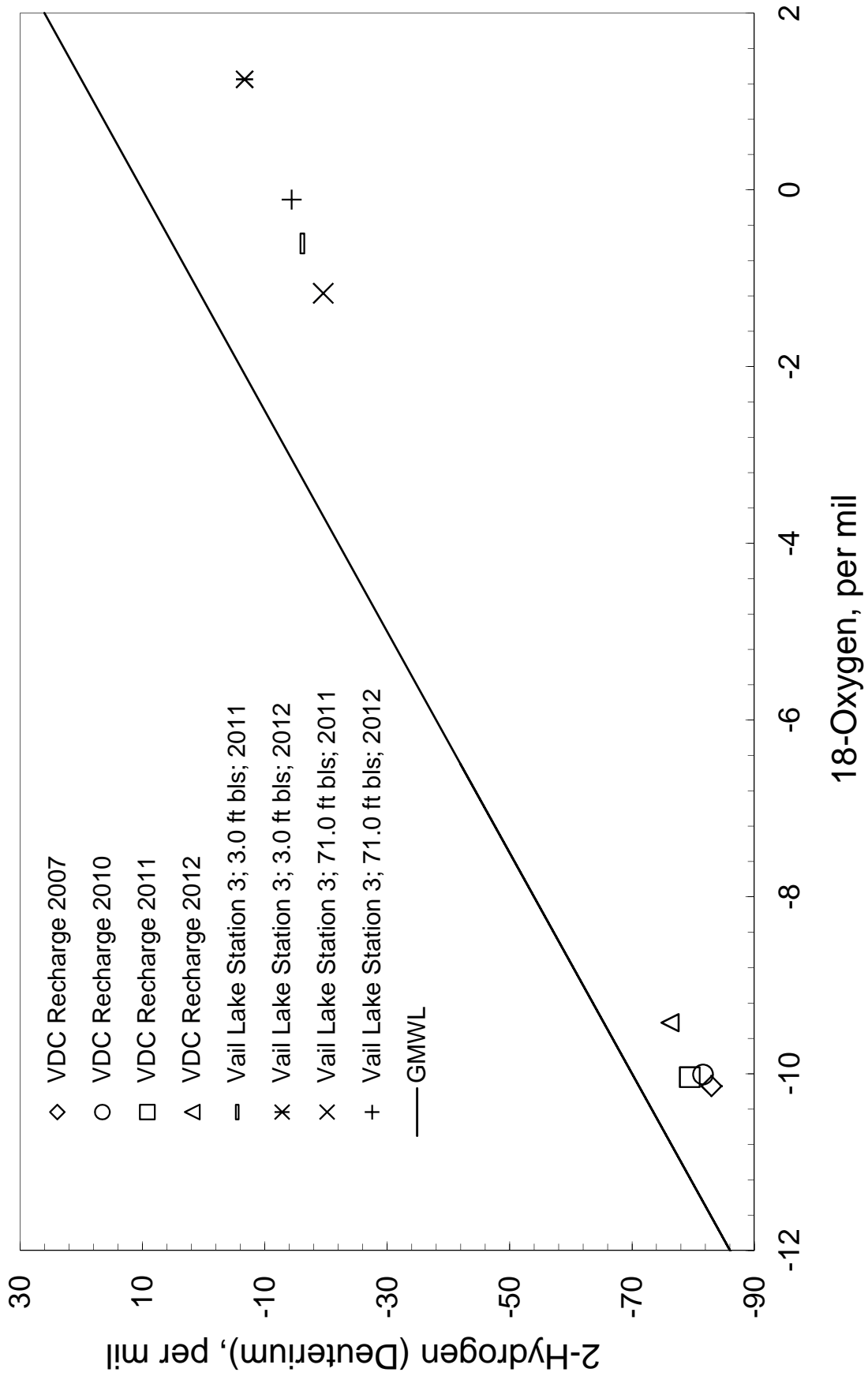


Chloride, Fluoride, Nitrite plus Nitrate
Percent

Calcium
Percent

Stable Isotope Diagram

VDC Recharge and Vail Lake



Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5 09/17/2007	Pond 5 07/28/2010	Pond 5 08/22/2011	Pond 5 08/21/2012
	Sampling date					
	Estimated Percentage of State Project Water Reported by Metropolitan Water District					
3	Sampling depth, feet		28%	19%	63%	51%
10	Temperature, water, degrees Celsius		24.5	25.4	33.0	27.8
28	Agency analyzing sample, code		80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute		847	875	590	644
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		0.00001	0.00001	0.00001	0.00001
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		6.1	8.1	7.9	6.5
300	Dissolved oxygen, water, unfiltered, milligrams per liter		7.9	8.1	7.9	7.9
400	pH, water, unfiltered, field, standard units		8.0	8.1	8.1	8.1
403	pH, water, unfiltered, laboratory, standard units		2.5	1.8	2.1	2.4
405	Carbon dioxide, water, unfiltered, milligrams per liter			138	102	116
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter			0.3	0.41	0.36
602	Total nitrogen, water, filtered, milligrams per liter		< 0.18	0.14	0.2	0.19
607	Organic nitrogen, water, filtered, milligrams per liter		< 0.020	0.022	0.011	0.012
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.002	0.003	< 0.001	< 0.001
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.227	0.141	0.197	0.16
618	Nitrate, water, filtered, milligrams per liter as nitrogen			0.16	0.21	0.2
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		0.23	0.14	0.2	0.16
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		0.068	0.034	0.137	0.1
660	Orthophosphate, water, filtered, milligrams per liter			< 0.04	0.05	0.04
666	Phosphorus, water, filtered, milligrams per liter		0.022	0.011	0.045	0.033
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		232	256	150	176
900	Hardness, water, milligrams per liter as calcium carbonate			141	66	80
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate		120	138	69	76
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate		55.4	62.0	35.7	42.6
915	Calcium, water, filtered, milligrams per liter		22.4	24.3	14.7	16.9
925	Magnesium, water, filtered, milligrams per liter		81.4	85.3	53.4	63.7
930	Sodium, water, filtered, milligrams per liter		2.33	2.33	1.90	2.09
931	Sodium adsorption ratio, water, number		43	42	43	44
932	Sodium fraction of cations, water, percent in equivalents of major cations		4.49	4.36	3.06	3.45
935	Potassium, water, filtered, milligrams per liter		84.9	87.8	60.6	68.7
940	Chloride, water, filtered, milligrams per liter	600	177	195	99	109
945	Sulfate, water, filtered, milligrams per liter	2 (b)	0.26	0.3	0.17	0.18
950	Fluoride, water, filtered, milligrams per liter		8.95	6.8	9.63	8.8
955	Silica, water, filtered, milligrams per liter		2.5	2.5	2.6	2.5
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	107	96.1	56.2	55.4
1005	Barium, water, filtered, micrograms per liter	1000 (d)	< 0.06			
1010	Beryllium, micrograms per liter	4 (e)				
1020	Boron, water, filtered, micrograms per liter		138	147	122	133
1025	Cadmium, micrograms per liter	5 (f)	< 0.04			
1030	Chromium, micrograms per liter	50 (g)	0.11 E			
1035	Cobalt, micrograms per liter		0.04 E			
1040	Copper, micrograms per liter	1000 (h)	4.9			
1046	Iron, water, filtered, micrograms per liter	300	6	4 E	7.3	< 3.2
1049	Lead, micrograms per liter		0.62			
1056	Manganese, water, filtered, micrograms per liter	50	1.1	0.4	2.26	1.94
1057	Thallium, micrograms per liter	2 (i)	< 0.04			
1060	Molybdenum, micrograms per liter		4.7			
1065	Nickel, micrograms per liter	100 (j)	1.2			
1075	Silver, micrograms per liter	100 (k)	< 0.10			
1080	Strontium, water, filtered, micrograms per liter		820	871	472	513
1085	Vanadium, micrograms per liter		3			
1090	Zinc, micrograms per liter	5000 (l)	5			
1095	Antimony, micrograms per liter	6 (m)	0.29			

Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5 09/17/2007	Pond 5 07/28/2010	Pond 5 08/22/2011	Pond 5 08/21/2012
	Sampling date					
1106	Aluminum, water, filtered, micrograms per liter		1.3 E	< 3.4	2	< 2.2
1130	Lithium, water, filtered, micrograms per liter	1000 (n)	33.1	48	24.4	24.5
1145	Selenium, micrograms per liter	50 (o)	1.4			
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter					
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					
4029	Bromacil, water, filtered, recoverable, micrograms per liter					
4035	Simazine, water, filtered, recoverable, micrograms per liter					
4036	Prometryn, water, filtered, recoverable, micrograms per liter					
4037	Prometon, water, filtered, recoverable, micrograms per liter					
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					
4095	Fonofos, water, filtered, recoverable, micrograms per liter					
7000	Tritium, water, unfiltered, picocuries per liter		19.8			
22703	Uranium, natural, micrograms per liter		3.81			
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		111	118	81.5	99.9
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		0.12			
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		17.2			
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08			
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1			
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		7.28			
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		16.1			
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		9.69			
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	0.06 E			
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.02			
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4			
34221	Anthracene, water, filtered, recoverable, micrograms per liter					
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)				
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter					
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.02			
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1			
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.02			
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter					
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1			
34409	Isophorone, water, filtered, recoverable, micrograms per liter					
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4			
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1			
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	0.1 E			
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter					
34443	Naphthalene, water, filtered, recoverable, micrograms per liter					
34466	Phenol, water, filtered, recoverable, micrograms per liter					
34470	Pyrene, water, filtered, recoverable, micrograms per liter					
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04			
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter					
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.08			
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.06			
34501	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	6	< 0.02			
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.04			
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04			
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.10			
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.04			
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.02			
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.02			
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.1			
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04			
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04			

Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5 09/17/2007	Pond 5 07/28/2010	Pond 5 08/22/2011	Pond 5 08/21/2012
34572	Sampling date					
1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.14			
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.4			
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.10			
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06			
38454	Dicropophos, water, filtered, recoverable, micrograms per liter					
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter			115	84.7	96.2
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate					
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.1			
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.02			
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					
39415	Metolachlor, water, filtered, recoverable, micrograms per liter					
39532	Malathion, water, filtered, recoverable, micrograms per liter					
39572	Diazinon, water, filtered, recoverable, micrograms per liter					
39632	Atrazine, water, filtered, recoverable, micrograms per liter					
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.1			
46342	Alachlor, water, filtered, recoverable, micrograms per liter					
49260	Acetochlor, water, filtered, recoverable, micrograms per liter					
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
49933	C-14, water, filtered, percent modern		89.1			
49934	C-14, counting error, water, filtered, percent modern		0.38			
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 0.4			
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1			
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1			
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.1			
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04			
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04			
50305	Caffeine, water, filtered, recoverable, micrograms per liter					
50359	Metalaxyl, water, filtered, recoverable, micrograms per liter	6				
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter					
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					
61593	Iprodione, water, filtered, recoverable, micrograms per liter					
61594	Isfenphos, water, filtered, recoverable, micrograms per liter					
61596	Metalaxyl, water, filtered, recoverable, micrograms per liter					
61598	Methidathion, water, filtered, recoverable, micrograms per liter					
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					
61601	Phosmet, water, filtered, recoverable, micrograms per liter					
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					
61618	2-Chloro-2,6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter					
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter					
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					

Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5 09/17/2007	Pond 5 07/28/2010	Pond 5 08/22/2011	Pond 5 08/21/2012
61674	Terbutos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					
61705	Diethoxyacetylphenol, water, filtered, recoverable, micrograms per liter					
61706	Monothoxyacetylphenol, water, filtered, recoverable, micrograms per liter					
62005	Cotinine, water, filtered, recoverable, micrograms per liter					
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter					
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter					
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter					
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter					
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					
62070	Camphor, water, filtered, recoverable, micrograms per liter					
62071	Carbazole, water, filtered, recoverable, micrograms per liter					
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					
62076	Indole, water, filtered, recoverable, micrograms per liter					
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					
62078	isopropylbenzene, water, filtered, recoverable, micrograms per liter					
62079	isouinolone, water, filtered, recoverable, micrograms per liter					
62080	Menthol, water, filtered, recoverable, micrograms per liter					
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					
62082	DEET, water, filtered, recoverable, micrograms per liter					
62083	Diethoxyonylphenol, water, filtered, recoverable, micrograms per liter					
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter					
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					
62090	Triclosan, water, filtered, recoverable, micrograms per liter					
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62166	Fipronil, water, filtered, recoverable, micrograms per liter					
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter					
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter					
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter					
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter					
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter	6	0.41			
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	1500	526	516	362	384
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter		503 E	537 E	329	372
70301	Residue, water, filtered, sum of constituents, milligrams per liter		< 0.026	0.029	0.014	0.015
70303	Residue, water, filtered, tons per acre-foot		< 1.00	0.623	0.872	0.708
71846	Ammonia, water, filtered, milligrams per liter as NH4					
71851	Nitrate, water, filtered, milligrams per liter	45 (g)				

Source: USGS California Water Science Center.

Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501

Code	Parameter	MCL	Pond 5 09/17/2007	Pond 5 07/28/2010	Pond 5 08/22/2011	Pond 5 08/21/2012
	Sampling date					
71856	Nitrite, water, filtered, milligrams per liter		< 0.007	0.011	< 0.003	< 0.003
71865	Iodide, water, filtered, milligrams per liter			0.012	0.004	0.008
71870	Bromide, water, filtered, milligrams per liter		0.06	0.10	0.075	0.122
72019	Depth to water level, feet below land surface					
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.6			
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.1			
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1.6			
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		15			
77041	Carbon disulfide, water, unfiltered, micrograms per liter		< 0.06			
77093	cis-1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	6	< 0.02			
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.4			
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.04			
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77168	1,1-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06			
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.1			
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1			
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		0.09 E			
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1			
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.08			
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08			
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.40			
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.12			
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04			
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.1			
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.04			
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04			
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.10			
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.08			
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.2			
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 6			
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.02			
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1			
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.06			
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4			
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 1.6			
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.2			
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 1			
82081	C-13/C-12 ratio, water, unfiltered, per mil		-6.46			
82085	Deuterium/Protium ratio, water, unfiltered, per mil		-83			
82303	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-10.14	-81.6	-79.4	-76.2
82346	Rn-222, water, unfiltered, picocuries per liter		0	-10.01	-10.04	-9.42
82625	Ethion, water, filtered, recoverable, micrograms per liter					
82630	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.5			
82630	Metrubuzin, water, filtered, recoverable, micrograms per liter					
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					

Source: USGS California Water Science Center.

**Water Quality Data for Imported Water Delivered to RCWD Upper VDC Recharge Basin
Upper Pond 5 in Pauba Valley
USGS Site No. 333024117005501**

Code	Parameter	MCL	Pond 5 09/17/2007	Pond 5 07/28/2010	Pond 5 08/22/2011	Pond 5 08/21/2012
	Sampling date					
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82670	Tebuuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
85795	m-Xylene plus p-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.08			
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		859	868	568	625
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter		50.2			
90867	Triholomehtanes, water, unfiltered, calcd, micrograms per liter		50.2			
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99584	Calfeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery					
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery					
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery					

Notes: U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

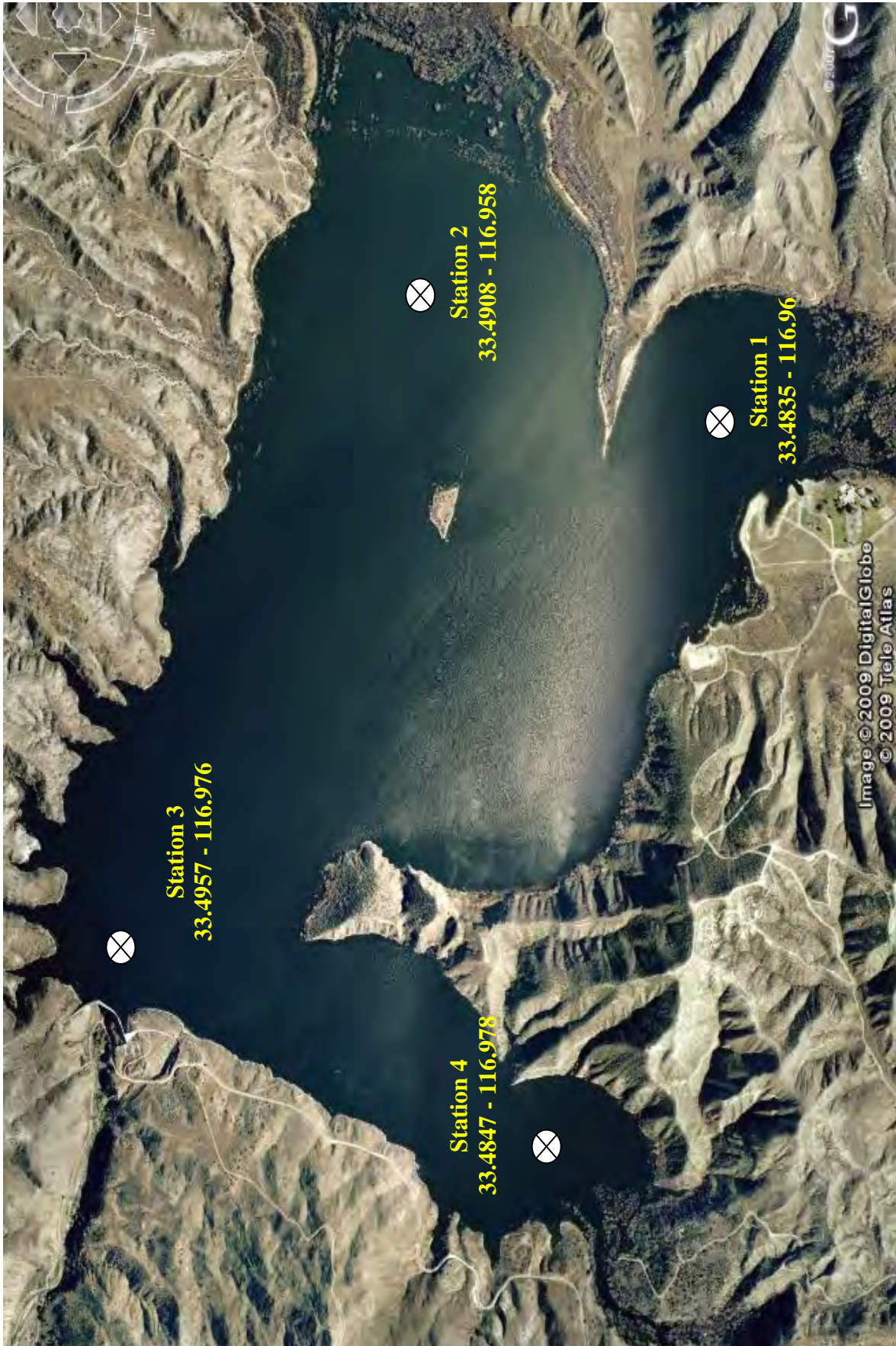
ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

APPENDIX D-2

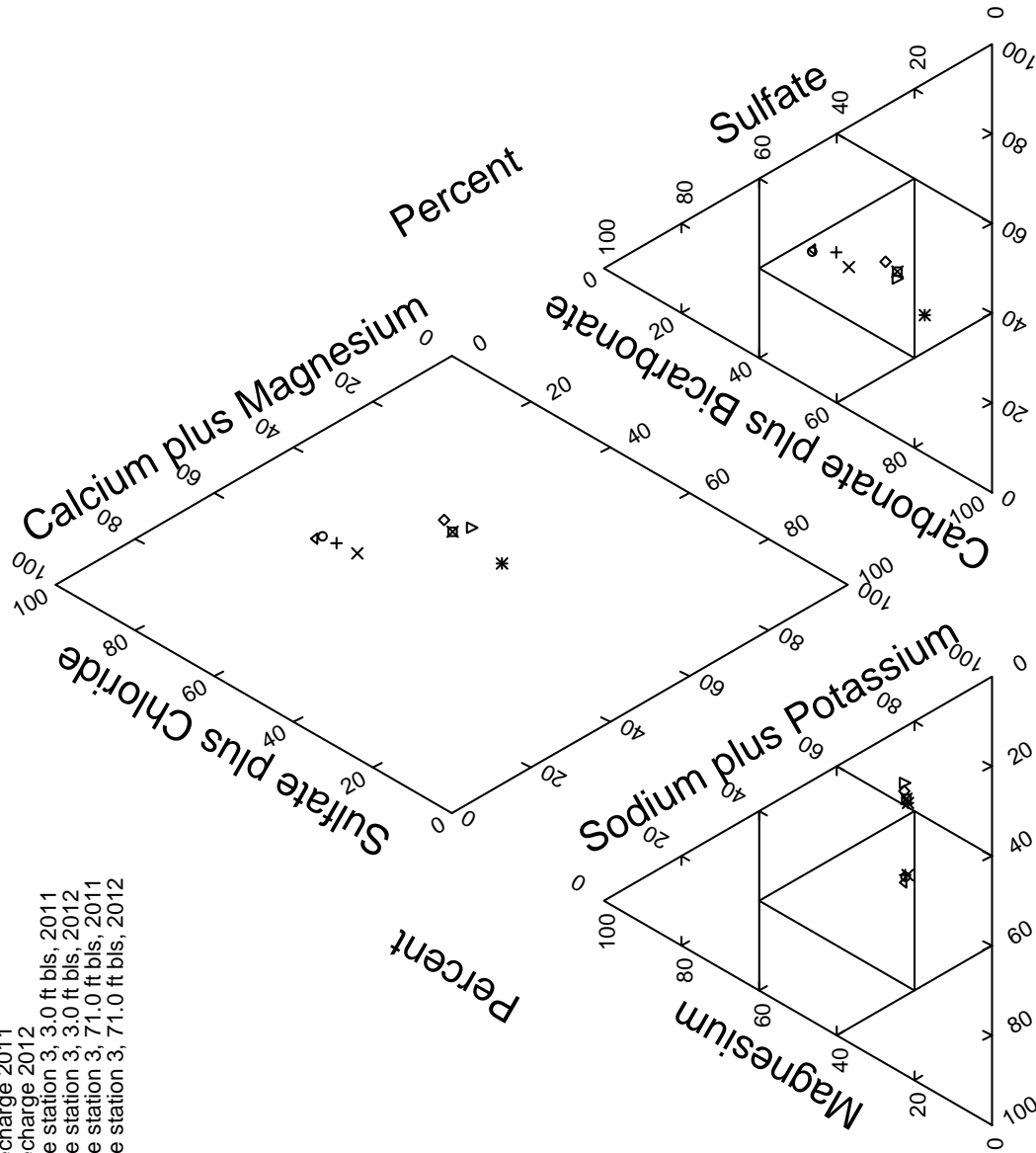
WATER QUALITY DATA FOR VAIL LAKE



Tri-Linear Diagram VDC Recharge and Vail

Explanation

- VDC Recharge 2007
- △ VDC Recharge 2010
- + VDC Recharge 2011
- x VDC Recharge 2012
- ◇ Vail Lake station 3, 3.0 ft bls, 2011
- ▽ Vail Lake station 3, 3.0 ft bls, 2012
- ▣ Vail Lake station 3, 71.0 ft bls, 2011
- * Vail Lake station 3, 71.0 ft bls, 2012



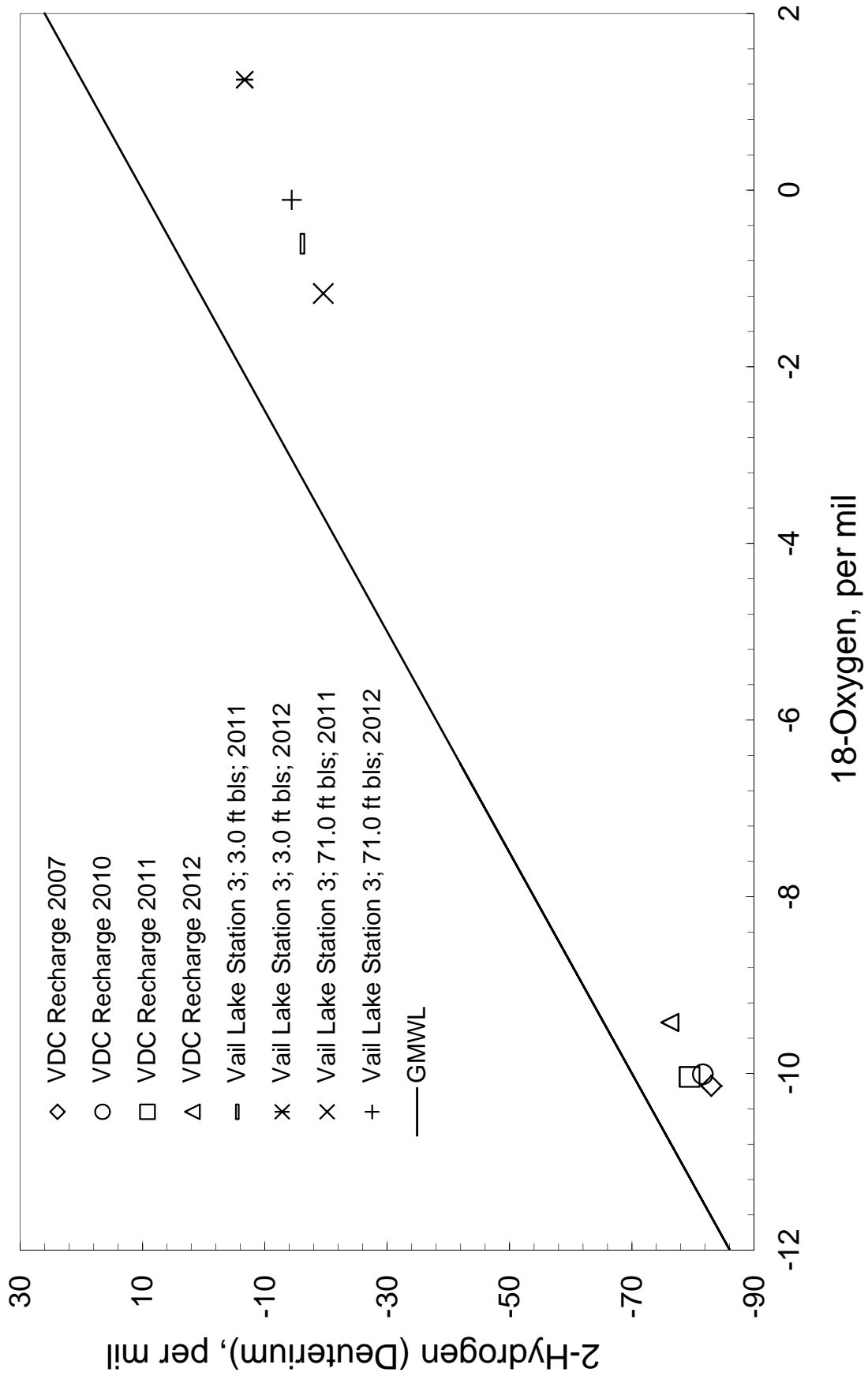
Calcium Chloride, Fluoride, Nitrite plus Nitrate
Percent

Calcium

Source: USGS California Water Science

Stable Isotope Diagram

VDC Recharge and Vail Lake



Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD**

Parameter	3 Vail 1M 09/22/2009	3 Vail 1M 10/21/2009	3 Vail 1M 11/18/2009	3 Vail 1M 05/26/2010	3 Vail 1M 06/17/2010	3 Vail 1M 09/18/2010
Sampling Date						
Reservoir Storage Content, acre feet	22,030	21,630	21,230	25,790	25,490	24,000
Reservoir Storage Content, percent full	44.6%	43.8%	43.0%	52.2%	51.6%	48.6%
Water Surface Elevation, feet above mean sea level	1,438.92	1,438.34	1,437.76	1,444.13	1,443.74	1,441.71
Water Surface Elevation, feet above bottom of lowest outlet	86.42	85.84	85.26	91.63	91.24	89.21
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter			10.7	7.98	8.54	
pH, standard units		8.98	8.72	9.11	9.29	
Total Dissolved Solids, milligrams per liter						
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius		1274	1058	1172	1174	1210
Temperature, water, degrees Celsius		19.84	16.02	19.90	22.84	22.51
Aluminum, micrograms per liter						ND
Ammonia, milligrams per liter as nitrogen		ND	ND	ND	ND	ND
Antimony, micrograms per liter						ND
Arsenic, micrograms per liter						ND
Barium, micrograms per liter						25
Beryllium, micrograms per liter						ND
Bicarbonate as HCO3, milligrams per liter	260	290	300	240		180
Carbonate as CO3, milligrams per liter	12	ND	ND	14		34
Chloride, milligrams per liter	180		180	130		160
Cyanide, milligrams per liter						ND
Fluoride, milligrams per liter						0.5
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND		ND
Inorganic Nitrogen, milligrams per liter	ND	ND	ND	ND		ND
Kjeldahl Nitrogen, milligrams per liter						
Lead, micrograms per liter						ND
Mercury, micrograms per liter						ND
Nickel, micrograms per liter						ND
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	ND		ND
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND		ND
Ortho Phosphate Phosphorus, milligrams per liter	ND	ND	0.053	ND		ND
Perchlorate, micrograms per liter						ND
Selenium, micrograms per liter						ND
Silver, micrograms per liter						ND
Sulfate, milligrams per liter	180		180	140		170
Thallium, micrograms per liter						ND
Total Alkalinity as CaCO3, milligrams per liter	230	240	250	220		200
Total Chromium, micrograms per liter						ND
Total Suspended Solids, milligrams per liter	ND	ND	7	8		13

Notes:

Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD**

Parameter	3 Vail 1M 10/09/2010	3 Vail 1M 11/13/2010	3 Vail 1M 12/11/2010	3 Vail 1M 01/08/2011	3 Vail 1M 02/12/2011	3 Vail 1M 04/16/2011
Sampling Date						
Reservoir Storage Content, acre feet	23,640	22,510	21,960	27,740	28,060	32,120
Reservoir Storage Content, percent full	47.9%	45.6%	44.5%	56.2%	56.8%	65.1%
Water Surface Elevation, feet above mean sea level	1,441.21	1,439.61	1,438.82	1,446.68	1,447.08	1,452.03
Water Surface Elevation, feet above bottom of lowest outlet	88.71	87.11	86.32	94.18	94.58	99.53
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter						
pH, standard units						
Total Dissolved Solids, milligrams per liter						
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius						
Temperature, water, degrees Celsius						
Aluminum, micrograms per liter						
Ammonia, milligrams per liter as nitrogen	0.18	0.13	0.33	0.18	ND	ND
Antimony, micrograms per liter						
Arsenic, micrograms per liter						
Barium, micrograms per liter						
Beryllium, micrograms per liter						
Bicarbonate as HCO3, milligrams per liter	260	260	270	220	230	190
Carbonate as CO3, milligrams per liter	ND	ND	ND	ND	ND	12
Chloride, milligrams per liter	150	160	160	130	120	110
Cyanide, milligrams per liter						
Fluoride, milligrams per liter						
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND	ND	ND
Inorganic Nitrogen, milligrams per liter	ND	ND	0.3	0.4	ND	ND
Kjeldahl Nitrogen, milligrams per liter						
Lead, micrograms per liter						
Mercury, micrograms per liter						
Nickel, micrograms per liter						
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	0.23	ND	ND
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND	ND	ND
Ortho Phosphate Phosphorus, milligrams per liter	ND	ND	ND	0.088	ND	ND
Perchlorate, micrograms per liter						
Selenium, micrograms per liter						
Silver, micrograms per liter						
Sulfate, milligrams per liter	160	150	160	130	120	110
Thallium, micrograms per liter						
Total Alkalinity as CaCO3, milligrams per liter	210	220	220	180	190	180
Total Chromium, micrograms per liter						
Total Suspended Solids, milligrams per liter	6	10	12	8	10	6

Notes:

Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD**

Parameter	3 Vail 1M 05/14/2011	3 Vail 1M 06/18/2011	3 Vail 1M 07/23/2011	3 Vail 1M 08/20/2011	3 Vail 1M 09/17/2011	3 Vail 1M 11/05/2011
Sampling Date						
Reservoir Storage Content, acre feet	31,990	31,550	30,730	30,120	29,590	28,880
Reservoir Storage Content, percent full	64.8%	63.9%	62.2%	61.0%	59.9%	58.5%
Water Surface Elevation, feet above mean sea level	1,451.88	1,451.36	1,450.38	1,449.64	1,448.99	1,448.11
Water Surface Elevation, feet above bottom of lowest outlet	99.38	98.86	97.88	97.14	96.49	95.61
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter			23.07			
pH, standard units			9.11			
Total Dissolved Solids, milligrams per liter		520		550	570	600
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius			984			
Temperature, water, degrees Celsius			21.7			
Aluminum, micrograms per liter						
Ammonia, milligrams per liter as nitrogen	ND	ND		ND	ND	0.14
Antimony, micrograms per liter						
Arsenic, micrograms per liter						
Barium, micrograms per liter						
Beryllium, micrograms per liter						
Bicarbonate as HCO3, milligrams per liter	170	160		200	220	240
Carbonate as CO3, milligrams per liter	22	30		13	8.4	ND
Chloride, milligrams per liter	100	110		120	120	130
Cyanide, milligrams per liter						
Fluoride, milligrams per liter						
Hydroxide as OH, milligrams per liter	ND	ND		ND	ND	ND
Inorganic Nitrogen, milligrams per liter	ND	ND		ND	ND	ND
Kjeldahl Nitrogen, milligrams per liter						
Lead, micrograms per liter						
Mercury, micrograms per liter						
Nickel, micrograms per liter						
Nitrate Nitrogen, milligrams per liter	ND	ND		ND	ND	ND
Nitrite Nitrogen, milligrams per liter	ND	ND		ND	ND	ND
Ortho Phosphate Phosphorus, milligrams per liter	ND	ND		ND	ND	ND
Perchlorate, micrograms per liter						
Selenium, micrograms per liter						
Silver, micrograms per liter						
Sulfate, milligrams per liter	110	110		110	120	110
Thalium, micrograms per liter						
Total Alkalinity as CaCO3, milligrams per liter	180	180		190	190	190
Total Chromium, micrograms per liter						
Total Suspended Solids, milligrams per liter	16	18		ND	6	8

Notes:
 Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
 Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
 ND - None detected.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD**

Parameter	3 Vail 1M 12/03/2011	3 Vail 1M 01/28/2012	3 Vail 1M 02/25/2012	3 Vail 1M 03/10/2012	3 Vail 1M 04/28/2012	3 Vail 1M 06/16/2012
Sampling Date						
Reservoir Storage Content, acre feet	28,790	28,740	28,800	28,870	29,360	28,570
Reservoir Storage Content, percent full	58.3%	58.2%	58.3%	58.5%	59.5%	57.9%
Water Surface Elevation, feet above mean sea level	1,448.00	1,447.94	1,448.01	1,448.10	1,448.71	1,447.72
Water Surface Elevation, feet above bottom of lowest outlet	95.50	95.44	95.51	95.60	96.21	95.22
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter						
pH, standard units						
Total Dissolved Solids, milligrams per liter	640	500	490	630	600	600
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius						
Temperature, water, degrees Celsius						
Aluminum, micrograms per liter						
Ammonia, milligrams per liter as nitrogen	0.2	ND	ND	ND	< 0.10	< 0.10
Antimony, micrograms per liter						
Arsenic, micrograms per liter						
Barium, micrograms per liter						
Beryllium, micrograms per liter						
Bicarbonate as HCO3, milligrams per liter	240	260	220	250	240	240
Carbonate as CO3, milligrams per liter	ND	ND	18	3.6	11	7.7
Chloride, milligrams per liter	130	120	130	120	130	130
Cyanide, milligrams per liter						
Fluoride, milligrams per liter						
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter	0.2	ND	ND	ND	< 0.20	< 0.20
Kjeldahl Nitrogen, milligrams per liter		2.1			1.5	1.2
Lead, micrograms per liter						
Mercury, micrograms per liter						
Nickel, micrograms per liter						
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	ND	< 0.20	< 0.20
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND	< 0.10	< 0.10
Ortho Phosphate Phosphorus, milligrams per liter	ND	ND	ND	ND	< 0.050	< 0.050
Perchlorate, micrograms per liter						
Selenium, micrograms per liter						
Silver, micrograms per liter						
Sulfate, milligrams per liter	120	110	120	120	130	120
Thallium, micrograms per liter						
Total Alkalinity as CaCO3, milligrams per liter	200	210	210	210	210	210
Total Chromium, micrograms per liter						
Total Suspended Solids, milligrams per liter	11	25	14	9	8	< 5

Notes:

Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD**

Parameter	3 Vail 1M 07/14/2012	3 Vail 1M 08/11/2012	3 Vail 1M 09/15/2012	3 Vail 1M 10/20/2012	3 Vail 1M 11/17/2012	3 Vail 1M 01/19/2013
Sampling Date						
Reservoir Storage Content, acre feet	28,000	27,490	26,880	26,110	25,020	23,970
Reservoir Storage Content, percent full	56.7%	55.7%	54.4%	52.9%	50.7%	48.6%
Water Surface Elevation, feet above mean sea level	1,447.01	1,446.35	1,445.56	1,444.55	1,443.11	1,441.68
Water Surface Elevation, feet above bottom of lowest outlet	94.51	93.85	93.06	92.05	90.61	89.18
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter						
pH, standard units						
Total Dissolved Solids, milligrams per liter	630	610	660	590	680	690
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius						
Temperature, water, degrees Celsius						
Aluminum, micrograms per liter	< 0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10
Ammonia, milligrams per liter as nitrogen						
Antimony, micrograms per liter						
Arsenic, micrograms per liter						
Barium, micrograms per liter						
Beryllium, micrograms per liter						
Bicarbonate as HCO3, milligrams per liter	240	230	230	240	270	290
Carbonate as CO3, milligrams per liter	12	13	16	11	< 3.0	< 3.0
Chloride, milligrams per liter	130	130	140	140	140	140
Cyanide, milligrams per liter						
Fluoride, milligrams per liter						
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Kjeldahl Nitrogen, milligrams per liter	1.3	2.0	3.2	2.2	1.7	1.5
Lead, micrograms per liter						
Mercury, micrograms per liter						
Nickel, micrograms per liter						
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Perchlorate, micrograms per liter						
Selenium, micrograms per liter						
Silver, micrograms per liter						
Sulfate, milligrams per liter	120	120	120	140	120	130
Thallium, micrograms per liter						
Total Alkalinity as CaCO3, milligrams per liter	220	210	220	220	230	240
Total Chromium, micrograms per liter						
Total Suspended Solids, milligrams per liter	7	12	6	11	9	20

Notes:

Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD**

Parameter	3 Vail 1M 02/23/2013	3 Vail 1M 03/23/2013	3 Vail 1M 04/20/2013	3 Vail 1M 05/04/2013	3 Vail 1M 06/22/2013	3 Vail 1M 10/31/2015
Sampling Date						
Reservoir Storage Content, acre feet	23,790	23,610	23,410	23,280	22,530	14,110
Reservoir Storage Content, percent full	48.2%	47.8%	47.4%	47.2%	45.6%	28.6%
Water Surface Elevation, feet above mean sea level	1,441.43	1,441.17	1,440.90	1,440.17	1,439.64	1,425.80
Water Surface Elevation, feet above bottom of lowest outlet	88.93	88.67	88.40	87.67	87.14	73.30
Sampling Depth, meters below water surface	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter						
pH, standard units						
Total Dissolved Solids, milligrams per liter	670	700	690	680	690	840
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius						
Temperature, water, degrees Celsius						
Aluminum, micrograms per liter						
Ammonia, milligrams per liter as nitrogen	< 0.10	< 0.10	< 0.10	< 0.10	0.11	0.28
Antimony, micrograms per liter						
Arsenic, micrograms per liter						
Barium, micrograms per liter						
Beryllium, micrograms per liter						
Bicarbonate as HCO3, milligrams per liter	250	280	290	280	300	360
Carbonate as CO3, milligrams per liter	3.6	9.6	< 3.0	< 3.0	11	17
Chloride, milligrams per liter	140	140	150	150	150	230
Cyanide, milligrams per liter						
Fluoride, milligrams per liter						
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 1.7
Inorganic Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.28
Kjeldahl Nitrogen, milligrams per liter	2.1	1.5	0.77	1.1	1.6	1.8
Lead, micrograms per liter						
Mercury, micrograms per liter						
Nickel, micrograms per liter						
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.11
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.046
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0028
Perchlorate, micrograms per liter						
Selenium, micrograms per liter						
Silver, micrograms per liter						
Sulfate, milligrams per liter	130	130	130	140	130	180
Thallium, micrograms per liter						
Total Alkalinity as CaCO3, milligrams per liter	210	240	240	230	260	330
Total Chromium, micrograms per liter						
Total Suspended Solids, milligrams per liter	8	9	< 5	< 5	< 5	6

Notes:
Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by RCWD**

Parameter	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M	3 Vail 1M
Sampling Date	05/16/2017				
Reservoir Storage Content, acre feet	13,080				
Reservoir Storage Content, percent full	26.5%				
Water Surface Elevation, feet above mean sea level	1,423.71				
Water Surface Elevation, feet above bottom of lowest outlet	71.21				
Sampling Depth, meters below water surface	1.0				
Dissolved Oxygen, milligrams per liter					
pH, standard units					
Total Dissolved Solids, milligrams per liter	780				
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius					
Temperature, water, degrees Celsius					
Aluminum, micrograms per liter					
Ammonia, milligrams per liter as nitrogen	< 0.048				
Antimony, micrograms per liter					
Arsenic, micrograms per liter					
Barium, micrograms per liter					
Beryllium, micrograms per liter					
Bicarbonate as HCO ₃ , milligrams per liter	220				
Carbonate as CO ₃ , milligrams per liter	50				
Chloride, milligrams per liter	190				
Cyanide, milligrams per liter					
Fluoride, milligrams per liter					
Hydroxide as OH, milligrams per liter	<1.7				
Inorganic Nitrogen, milligrams per liter	< 0.055				
Kjeldahl Nitrogen, milligrams per liter	2.4				
Lead, micrograms per liter					
Mercury, micrograms per liter					
Nickel, micrograms per liter					
Nitrate Nitrogen, milligrams per liter	< 0.055				
Nitrite Nitrogen, milligrams per liter	< 0.042				
Ortho Phosphate Phosphorus, milligrams per liter	< 0.024				
Perchlorate, micrograms per liter					
Selenium, micrograms per liter					
Silver, micrograms per liter					
Sulfate, milligrams per liter	170				
Thallium, micrograms per liter					
Total Alkalinity as CaCO ₃ , milligrams per liter	270				
Total Chromium, micrograms per liter					
Total Suspended Solids, milligrams per liter	10				

Notes:
 Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface.
 Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.
 ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD**

Parameter	3 Vail 1MAB 09/22/2009	3 Vail 1MAB 10/21/2009	3 Vail 1MAB 11/18/2009	3 Vail 1MAB 05/26/2010	3 Vail 1MAB 06/17/2010	3 Vail 1MAB 08/14/2010	3 Vail 1MAB 09/18/2010
Sampling Date							
Reservoir Storage Content, acre feet	22,030	21,630	21,230	25,790	25,490	24,510	24,000
Reservoir Storage Content, percent full	44.6%	43.8%	43.0%	52.2%	51.6%	49.6%	48.6%
Water Surface Elevation, feet above mean sea level	1,438.92	1,438.34	1,437.76	1,444.13	1,443.74	1,442.42	1,441.71
Water Surface Elevation, feet above bottom of lowest outlet	86.42	85.84	85.26	91.63	91.24	89.92	89.21
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter			12.4	14.13	77.2	6.1	
pH, standard units		7.47	8.5	7.8	7.71	7.64	
Total Dissolved Solids, milligrams per liter						840	
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius		1212	1053	1250	1253	1243	1226
Temperature, water, degrees Celsius		15.46	15.6	12.2	12.46	13.5	16.64
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	4.10	5.50	0.12	1.90		0.28	1.80
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	370	360	300	300		360	420
Carbonate as CO ₃ , milligrams per liter	ND	ND	ND	ND		17	ND
Chloride, milligrams per liter	160		180	150		230	160
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND		<1.7	ND
Inorganic Nitrogen, milligrams per liter	4.10	5.50	ND	1.90		<0.28	1.80
Kjeldahl Nitrogen, milligrams per liter						1.80	
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	ND		<0.11	ND
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND		<0.046	ND
Ortho Phosphate Phosphorus, milligrams per liter	0.78	1.10	0.053	0.470		<0.0028	1.400
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	110		190	140		180	69
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	300	300	250	250		330	340
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	ND	ND	6	5		6	ND

Notes:

Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.

Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.

ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD**

Parameter	3 Vail 1MAB 10/09/2010	3 Vail 1MAB 11/13/2010	3 Vail 1MAB 12/11/2010	3 Vail 1MAB 01/08/2011	3 Vail 1MAB 02/12/2011	3 Vail 1MAB 03/19/2011	3 Vail 1MAB 04/16/2011
Sampling Date	10/09/2010	11/13/2010	12/11/2010	01/08/2011	02/12/2011	03/19/2011	04/16/2011
Reservoir Storage Content, acre feet	23,640	22,510	21,960	27,740	28,060	30,740	32,120
Reservoir Storage Content, percent full	47.9%	45.6%	44.5%	56.2%	56.8%	62.3%	65.1%
Water Surface Elevation, feet above mean sea level	1,441.21	1,439.61	1,438.82	1,446.68	1,447.08	1,450.39	1,452.03
Water Surface Elevation, feet above bottom of lowest outlet	88.71	87.11	86.32	94.18	94.58	97.89	99.53
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter						840	
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen		9.10	0.31	0.22	ND	0.28	0.45
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	390	430	270	220	230	360	230
Carbonate as CO ₃ , milligrams per liter	ND	ND	ND	ND	ND	17	ND
Chloride, milligrams per liter	150	150	160	130	120	230	120
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND	ND	<1.7	ND
Inorganic Nitrogen, milligrams per liter	7.80	9.10	0.30	0.6	ND	<0.28	0.50
Kjeldahl Nitrogen, milligrams per liter						1.8	
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	0.34	ND	<0.11	ND
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND	ND	<0.046	ND
Ortho Phosphate Phosphorus, milligrams per liter	1.000	0.660	ND	0.09	ND	<0.0028	0.170
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	60	45	160	130	120	180	120
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	320	360	220	180	190	330	180
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	6	ND	14	8	8	6	ND

Notes:

Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.

Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.

ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD**

Parameter	3 Vail 1MAB 05/14/2011	3 Vail 1MAB 06/18/2011	3 Vail 1MAB 07/23/2011	3 Vail 1MAB 08/20/2011	3 Vail 1MAB 09/17/2011	3 Vail 1MAB 10/15/2011	3 Vail 1MAB 11/05/2011
Sampling Date							
Reservoir Storage Content, acre feet	31,990	31,550	30,730	30,120	29,590	29,140	28,880
Reservoir Storage Content, percent full	64.8%	63.9%	62.2%	61.0%	59.9%	59.0%	58.5%
Water Surface Elevation, feet above mean sea level	1,451.88	1,451.36	1,450.38	1,449.64	1,448.99	1,448.44	1,448.11
Water Surface Elevation, feet above bottom of lowest outlet	99.38	98.86	97.88	97.14	96.49	95.94	95.61
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units			7.56				
Total Dissolved Solids, milligrams per liter		530		560	610	840	590
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius			1007				
Temperature, water, degrees Celsius			12.2				
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	0.81	1.4		3.6	5	0.3	0.13
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	240	240		300	330	360	230
Carbonate as CO3, milligrams per liter	ND	ND		ND	ND	17	ND
Chloride, milligrams per liter	110	130		120	120	230	130
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND		ND	ND	<1.7	ND
Inorganic Nitrogen, milligrams per liter	0.8	1.4		3.6	5	<0.28	ND
Kjeldahl Nitrogen, milligrams per liter						1.8	
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND		ND	ND	<0.11	ND
Nitrite Nitrogen, milligrams per liter	ND	ND		ND	ND	<0.046	ND
Ortho Phosphate Phosphorus, milligrams per liter	0.26	0.49		0.36	0.65	<0.0028	0.45
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	110	100		74	60	180	110
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	190	200		240	270	330	190
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	6	ND		ND	ND	6	6

Notes:

Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.

Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.

ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD**

Parameter	3 Vail 1MAB 12/03/2011	3 Vail 1MAB 01/28/2012	3 Vail 1MAB 02/25/2012	3 Vail 1MAB 03/10/2012	3 Vail 1MAB 04/28/2012	3 Vail 1MAB 05/12/2012	3 Vail 1MAB 06/16/2012
Sampling Date	12/03/2011	01/28/2012	02/25/2012	03/10/2012	04/28/2012	05/12/2012	06/16/2012
Reservoir Storage Content, acre feet	28,790	28,740	28,800	28,870	29,360	29,220	28,570
Reservoir Storage Content, percent full	58.3%	58.2%	58.3%	58.5%	59.5%	59.2%	57.9%
Water Surface Elevation, feet above mean sea level	1,448.00	1,447.94	1,448.01	1,448.10	1,448.71	1,448.53	1,447.72
Water Surface Elevation, feet above bottom of lowest outlet	95.50	95.44	95.51	95.60	96.21	96.03	95.22
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	670	520	510	630	590	840	600
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	0.24	ND	0.4	0.61	1.7	0.28	2.7
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO3, milligrams per liter	240	260	260	260	280	360	280
Carbonate as CO3, milligrams per liter	ND	ND	ND	ND	< 3.0	17	< 3.0
Chloride, milligrams per liter	130	120	130	120	130	230	120
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	ND	ND	ND	ND	< 3.0	< 1.7	< 3.0
Inorganic Nitrogen, milligrams per liter	0.2	ND	0.4	0.6	1.7	< 0.28	2.7
Kjeldahl Nitrogen, milligrams per liter		1.8			3.1	1.8	4.2
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	ND	ND	ND	ND	< 0.20	< 0.11	< 0.20
Nitrite Nitrogen, milligrams per liter	ND	ND	ND	ND	< 0.10	< 0.046	< 0.10
Ortho Phosphate Phosphorus, milligrams per liter	ND	ND	ND	0.13	0.31	< 0.0028	0.45
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	120	110	120	110	110	180	87
Thalium, micrograms per liter							
Total Alkalinity as CaCO3, milligrams per liter	200	210	210	210	230	330	230
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	12	23	12	11	6	6	< 5

Notes:

Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.

Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.

ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD**

Parameter	3 Vail 1MAB 07/14/2012	3 Vail 1MAB 08/11/2012	3 Vail 1MAB 09/15/2012	3 Vail 1MAB 10/20/2012	3 Vail 1MAB 11/17/2012	3 Vail 1MAB 12/15/2012	3 Vail 1MAB 01/19/2013
Sampling Date							
Reservoir Storage Content, acre feet	28,000	27,490	26,880	26,110	25,020	24,340	23,970
Reservoir Storage Content, percent full	56.7%	55.7%	54.4%	52.9%	50.7%	49.3%	48.6%
Water Surface Elevation, feet above mean sea level	1,447.01	1,446.35	1,445.56	1,444.55	1,443.11	1,442.18	1,441.68
Water Surface Elevation, feet above bottom of lowest outlet	94.51	93.85	93.06	92.05	90.61	89.68	89.18
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	620	600	610	610	700	840	700
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	2.5	4.0	4.0	8.6	0.20	0	0.15
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	280	300	340	390	270	360	290
Carbonate as CO ₃ , milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	17	< 3.0
Chloride, milligrams per liter	120	120	120	120	130	230	140
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 1.7	< 3.0
Inorganic Nitrogen, milligrams per liter	2.5	4.0	4.1	8.6	0.20	< 0.28	0.31
Kjeldahl Nitrogen, milligrams per liter	3.4	6.2	6.0	10	1.9	2	2.1
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.11	< 0.20
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.046	0.16
Ortho Phosphate Phosphorus, milligrams per liter	0.40	< 0.14	0.49	1.1	< 0.050	< 0.0028	< 0.050
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	87	72	63	42	120	180	130
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	230	250	280	320	220	330	240
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	< 5	7	< 5	6	8	6	22

Notes:

Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.

Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.

ND - None detected.

Source: Rancho California Water District.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by RCWD**

Parameter	3 Vail 1MAB 02/23/2013	3 Vail 1MAB 03/23/2013	3 Vail 1MAB 04/20/2013	3 Vail 1MAB 05/04/2013	3 Vail 1MAB 06/22/2013	3 Vail 1MAB 10/31/2015	3 Vail 1MAB 05/16/2017
Sampling Date							
Reservoir Storage Content, acre feet	23,790	23,610	23,410	23,280	22,530	14,110	13,080
Reservoir Storage Content, percent full	48.2%	47.8%	47.4%	47.2%	45.6%	28.6%	26.5%
Water Surface Elevation, feet above mean sea level	1,441.43	1,441.17	1,440.90	1,440.17	1,439.64	1,425.80	1,423.71
Water Surface Elevation, feet above bottom of lowest outlet	88.93	88.67	88.40	87.67	87.14	73.30	71.21
Sampling Depth, meters above reservoir bottom	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	680	680	650	700	690	860	-
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	0.20	0.91	1.6	2.1	3.9	10	1.7
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	290	300	290	290	310	580	320
Carbonate as CO ₃ , milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 1.7	< 1.7
Chloride, milligrams per liter	140	130	140	150	140	200	210
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 1.7	< 1.7
Inorganic Nitrogen, milligrams per liter	0.20	0.91	1.6	2.1	3.9	10	1.7
Kjeldahl Nitrogen, milligrams per liter	1.4	2.0	2.9	3.2	4.7	15	4
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.11	< 0.055
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.046	< 0.042
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	0.18	0.30	0.36	0.48	0.49	0.36
Perchlorate, micrograms per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter	130	120	130	120	96	43	150
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	240	240	240	240	260	470	320
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter	6	6	7	6	< 5	< 15	36

Notes:

Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom.

Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.

ND - None detected.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS**

Code	Parameter	MCL	3 Vail 1M		
			08/20/2011	09/15/2012	
	Sampling date				
	Reservoir Storage Content, acre feet		30,120	26,880	
	Reservoir Storage Content, percent full		61.0%	54.4%	
	Water Surface Elevation, feet above mean sea level		1,449.64	1,445.37	
	Water Surface Elevation, feet above bottom of lowest outlet		97.14	92.87	
3	Sampling depth, feet below water surface		3.0	3.0	
10	Temperature, water, degrees Celsius		22.5	27.4	
28	Agency analyzing sample, code		80020	80020	
59	Flow rate, instantaneous, gallons per minute				
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		948	1080	
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		M	M	
300	Dissolved oxygen, water, unfiltered, milligrams per liter				
400	pH, water, unfiltered, field, standard units		8.8	8.9	
403	pH, water, unfiltered, laboratory, standard units		8.8	9.0	
405	Carbon dioxide, water, unfiltered, milligrams per liter		0.5	0.5	
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter		203	246	
602	Total nitrogen, water, filtered, milligrams per liter		< 0.88	< 0.80	
607	Organic nitrogen, water, filtered, milligrams per liter		0.79	0.75	
608	Ammonia, water, filtered, milligrams per liter as nitrogen		0.073	0.012	
613	Nitrite, water, filtered, milligrams per liter as nitrogen		< 0.001	< 0.001	
618	Nitrate, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.020	< 0.040	
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		0.86	0.76	
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		< 0.02	< 0.040	
660	Orthophosphate, water, filtered, milligrams per liter		0.013	< 0.012	
666	Phosphorus, water, filtered, milligrams per liter		0.02	0.02	
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.004	< 0.004	
900	Hardness, water, milligrams per liter as calcium carbonate		169	201	
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate				
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate				
915	Calcium, water, filtered, milligrams per liter		26.1	28.8	
925	Magnesium, water, filtered, milligrams per liter		25.1	31.2	
930	Sodium, water, filtered, milligrams per liter		128	165	
931	Sodium adsorption ratio, water, number		4.31	5.06	
932	Sodium fraction of cations, water, percent in equivalents of major cations		61	63	
935	Potassium, water, filtered, milligrams per liter		8.57	10.7	
940	Chloride, water, filtered, milligrams per liter	600	116	139	
945	Sulfate, water, filtered, milligrams per liter	600	115	129	
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.49	0.54	
955	Silica, water, filtered, milligrams per liter		10.9	2.4	
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	2	1.8	
1005	Barium, water, filtered, micrograms per liter	1000 (d)	41.2	35.4	
1010	Beryllium, micrograms per liter	4 (e)			
1020	Boron, water, filtered, micrograms per liter		192	227	
1025	Cadmium, micrograms per liter	5 (f)			
1030	Chromium, micrograms per liter	50 (g)			
1035	Cobalt, micrograms per liter				
1040	Copper, micrograms per liter	1000 (h)			
1046	Iron, water, filtered, micrograms per liter	300	5	< 3.2	

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS**

Code	Parameter	MCL	3 Vail 1M	
			08/20/2011	09/15/2012
	Sampling date			
1049	Lead, micrograms per liter			
1056	Manganese, water, filtered, micrograms per liter	50	1.2	0.54
1057	Thallium, micrograms per liter	2 (l)		
1060	Molybdenum, micrograms per liter			
1065	Nickel, micrograms per liter	100 (j)		
1075	Silver, micrograms per liter	100 (k)		
1080	Strontium, water, filtered, micrograms per liter		254	315
1085	Vanadium, micrograms per liter			
1090	Zinc, micrograms per liter	5000 (l)		
1095	Antimony, micrograms per liter	6 (m)		
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	3.7	7.2
1130	Lithium, water, filtered, micrograms per liter		10	7.44
1145	Selenium, micrograms per liter	50 (o)		
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter			
4025	Hexazinone, water, filtered, recoverable, micrograms per liter			
4029	Bromacil, water, filtered, recoverable, micrograms per liter			
4035	Simazine, water, filtered, recoverable, micrograms per liter			
4036	Prometryn, water, filtered, recoverable, micrograms per liter			
4037	Prometon, water, filtered, recoverable, micrograms per liter			
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter			
4095	Fonofos, water, filtered, recoverable, micrograms per liter			
7000	Tritium, water, unfiltered, picocuries per liter			
22703	Uranium, natural, micrograms per liter			
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, lab, milligrams per liter as calcium carbonate		179	223
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter			
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter			
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5		
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter			
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter			
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter			
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter			
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150		
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1		
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter			
34221	Anthracene, water, filtered, recoverable, micrograms per liter			
34248	Benzofalpyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)		
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter			
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70		
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter			
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300		
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter			
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter			
34409	Isophorone, water, filtered, recoverable, micrograms per liter			
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter			
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter			
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter			
34443	Naphthalene, water, filtered, recoverable, micrograms per liter	5		

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS**

Code	Parameter	MCL	3 Vail 1M	
			08/20/2011	09/15/2012
	Sampling date			
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter			
34466	Phenol, water, filtered, recoverable, micrograms per liter			
34470	Pyrene, water, filtered, recoverable, micrograms per liter			
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5		
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter			
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150		
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5		
34501	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	6		
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200		
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5		
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1		
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600		
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5		
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10		
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5		
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter			
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5		
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter			
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter			
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter			
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5		
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5		
38454	Dicropofos, water, filtered, recoverable, micrograms per liter			
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter			
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter			
39036	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate			
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		180	223
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5		
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5		
39381	Dieldrin, water, filtered, recoverable, micrograms per liter			
39415	Metolachlor, water, filtered, recoverable, micrograms per liter			
39532	Malathion, water, filtered, recoverable, micrograms per liter			
39572	Diazinon, water, filtered, recoverable, micrograms per liter			
39632	Atrazine, water, filtered, recoverable, micrograms per liter			
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter			
46342	Alachlor, water, filtered, recoverable, micrograms per liter			
49260	Acetochlor, water, filtered, recoverable, micrograms per liter			
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
49933	C-14, water, filtered, percent modern			
49934	C-14, counting error, water, filtered, percent modern			
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter			
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter			
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter			
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter			
50004	tert-Butyl ether, water, unfiltered, recoverable, micrograms per liter			
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter			
50305	Caffeine, water, filtered, recoverable, micrograms per liter			

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS**

Code	Parameter	MCL	3 Vail 1M	
			08/20/2011	09/15/2012
	Sampling date			
50359	Metaalaxyl, water, filtered, recoverable, micrograms per liter			
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6		
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter			
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter			
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter			
61593	Iprodione, water, filtered, recoverable, micrograms per liter			
61594	Isofenphos, water, filtered, recoverable, micrograms per liter			
61596	Metaalaxyl, water, filtered, recoverable, micrograms per liter			
61598	Methidathion, water, filtered, recoverable, micrograms per liter			
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter			
61601	Phosmet, water, filtered, recoverable, micrograms per liter			
61610	Tribuphos, water, filtered, recoverable, micrograms per liter			
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter			
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter			
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter			
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter			
61635	Azinhophos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter			
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter			
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter			
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter			
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter			
61652	Malaoxon, water, filtered, recoverable, micrograms per liter			
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter			
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter			
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter			
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter			
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter			
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter			
62005	Cotinine, water, filtered, recoverable, micrograms per liter			
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter			
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter			
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter			
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter			
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter			
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter			
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter			
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter			
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter			
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter			
62064	Acetophenone, water, filtered, recoverable, micrograms per liter			
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter			
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter			
62067	Benzophenone, water, filtered, recoverable, micrograms per liter			
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter			
62070	Camphor, water, filtered, recoverable, micrograms per liter			
62071	Carbazole, water, filtered, recoverable, micrograms per liter			
62072	Cholesterol, water, filtered, recoverable, micrograms per liter			

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS**

Code	Parameter	MCL	3 Vail 1M	
			08/20/2011	09/15/2012
	Sampling date			
62073	D-Limonene, water, filtered, recoverable, micrograms per liter			
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter			
62076	Indole, water, filtered, recoverable, micrograms per liter			
62077	Isoborneol, water, filtered, recoverable, micrograms per liter			
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter			
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter			
62080	Menthol, water, filtered, recoverable, micrograms per liter			
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter			
62082	DEET, water, filtered, recoverable, micrograms per liter			
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter			
62084	p-Cresol, water, filtered, recoverable, micrograms per liter			
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter			
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter			
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter			
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter			
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter			
62090	Triclosan, water, filtered, recoverable, micrograms per liter			
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter			
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter			
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter			
62166	Fipronil, water, filtered, recoverable, micrograms per liter			
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter			
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter			
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter			
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter			
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter			
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6		
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	587	658
70301	Residue, water, filtered, sum of constituents, milligrams per liter		539	641
70303	Residue, water, filtered, tons per acre-foot			
71846	Ammonia, water, filtered, milligrams per liter as NH4		0.094	0.016
71851	Nitrate, water, filtered, milligrams per liter	45 (g)	< 0.089	< 0.177
71856	Nitrite, water, filtered, milligrams per liter		< 0.003	< 0.003
71865	Iodide, water, filtered, milligrams per liter		0.021	0.017
71870	Bromide, water, filtered, milligrams per liter		0.46	0.468
72019	Depth to water level, feet below land surface			
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter			
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter			
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter			
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter			
77041	Carbon disulfide, water, unfiltered, micrograms per liter			
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6		
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter			
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100		
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter			
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter			
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter			

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS**

Code	Parameter	MCL	08/20/2011	09/15/2012	3 Vail 1M
	Sampling date				
7173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter				
7120	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter				
7221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				
7222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				
7223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter				
7224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter				
7226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				
7275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter				
7277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter				
7297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter				
7342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				
7350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				
7353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				
7356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter				
7424	Iodomethane, water, unfiltered, recoverable, micrograms per liter				
7443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter				
7562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter				
7613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter				
7652	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter				
7651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter				
7652	1,1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter	0.05			
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter				
78109	3-Chloropropane, water, unfiltered, recoverable, micrograms per liter				
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				
81552	Acetone, water, unfiltered, recoverable, micrograms per liter				
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter				
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter				
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter				
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter				
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter				
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter				
82081	C-13/C-12 ratio, water, unfiltered, per mil				
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-16.2	-6.7	
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-0.61	1.25	
82303	Rn-222, water, unfiltered, picocuries per liter				
82346	Ethion, water, filtered, recoverable, micrograms per liter				
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter				
82630	Metribuzin, water, filtered, recoverable, micrograms per liter				
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1M
Data Collected by USGS**

Code	Parameter	MCL	3 Vail 1M	
			08/20/2011	09/15/2012
	Sampling date			
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter			
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius	925		1080
90851	Triholomethanes, water, unfiltered, calcd, micrograms per liter			
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery			
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery			
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery			
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery			
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery			
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery			
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery			
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery			
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery			

Notes:

Station No. 3 Vail 1M located near upstream face of Vail Dam, sample depth one meter below water surface. Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPASTORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPASTORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS**

Code	Parameter	MCL	08/20/2011	09/15/2012	3 Vail 1MAB
	Sampling date				
	Reservoir Storage Content, acre feet		30,120	26,880	
	Reservoir Storage Content, percent full		61.0%	54.4%	
	Water Surface Elevation, feet above mean sea level		1,449.64	1,445.37	
	Water Surface Elevation, feet above bottom of lowest outlet		97.14	92.87	
3	Sampling depth, feet below water surface		71.0	71.0	
10	Temperature, water, degrees Celsius		15.5	23.8	
28	Agency analyzing sample, code		80020	80020	
59	Flow rate, instantaneous, gallons per minute				
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		1000	1080	
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00002	0.00003	
300	Dissolved oxygen, water, unfiltered, milligrams per liter			0.4	
400	pH, water, unfiltered, field, standard units		7.7	7.6	
403	pH, water, unfiltered, laboratory, standard units		7.8	7.6	
405	Carbon dioxide, water, unfiltered, milligrams per liter		9.2	15	
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter		284	359	
602	Total nitrogen, water, filtered, milligrams per liter		< 3.7	< 6.0	
607	Organic nitrogen, water, filtered, milligrams per liter		0.81	0.81	
608	Ammonia, water, filtered, milligrams per liter as nitrogen		2.88	5.11	
613	Nitrite, water, filtered, milligrams per liter as nitrogen		< 0.003	0.002	
618	Nitrate, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.020	< 0.038	
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		3.7	5.9	
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		< 0.02	< 0.040	
660	Orthophosphate, water, filtered, milligrams per liter		1.5	2.41	
666	Phosphorus, water, filtered, milligrams per liter		0.49	0.78	
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.488	0.786	
900	Hardness, water, milligrams per liter as calcium carbonate		186	224	
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate				
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate				
915	Calcium, water, filtered, milligrams per liter		31.5	39.7	
925	Magnesium, water, filtered, milligrams per liter		26	30.1	
930	Sodium, water, filtered, milligrams per liter		132	154	
931	Sodium adsorption ratio, water, number		4.22	4.47	
932	Sodium fraction of cations, water, percent in equivalents of major cations		59	59	
935	Potassium, water, filtered, milligrams per liter		9.46	10.2	
940	Chloride, water, filtered, milligrams per liter	600	117	124	
945	Sulfate, water, filtered, milligrams per liter	600	105	95.5	
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.48	0.53	
955	Silica, water, filtered, milligrams per liter		9.6	5.84	
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	1.3	1.5	
1005	Barium, water, filtered, micrograms per liter	1000 (d)	58.6	96.6	
1010	Beryllium, micrograms per liter	4 (e)			
1020	Boron, water, filtered, micrograms per liter		188	220	
1025	Cadmium, micrograms per liter	5 (f)			
1030	Chromium, micrograms per liter	50 (g)			
1035	Cobalt, micrograms per liter				
1040	Copper, micrograms per liter	1000 (h)			
1046	Iron, water, filtered, micrograms per liter	300	28	15.6	

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS**

Code	Parameter	MCL	08/20/2011	09/15/2012	3 Vail 1MAB
	Sampling date				
1049	Lead, micrograms per liter				
1056	Manganese, water, filtered, micrograms per liter	50	299	423	
1057	Thallium, micrograms per liter	2 (l)			
1060	Molybdenum, micrograms per liter				
1065	Nickel, micrograms per liter	100 (j)			
1075	Silver, micrograms per liter	100 (k)			
1080	Strontium, water, filtered, micrograms per liter		295	340	
1085	Vanadium, micrograms per liter				
1090	Zinc, micrograms per liter	5000 (l)			
1095	Antimony, micrograms per liter	6 (m)			
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	< 1.7	< 2.2	
1130	Lithium, water, filtered, micrograms per liter		9	7.2	
1145	Selenium, micrograms per liter	50 (o)			
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter				
4025	Hexazinone, water, filtered, recoverable, micrograms per liter				
4029	Bromacil, water, filtered, recoverable, micrograms per liter				
4035	Simazine, water, filtered, recoverable, micrograms per liter				
4036	Prometryn, water, filtered, recoverable, micrograms per liter				
4037	Prometon, water, filtered, recoverable, micrograms per liter				
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter				
4095	Fonofos, water, filtered, recoverable, micrograms per liter				
7000	Tritium, water, unfiltered, picocuries per liter				
22703	Uranium, natural, micrograms per liter				
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, lab, milligrams per liter as calcium carbonate		210	276	
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter				
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter				
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5			
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter				
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter				
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter				
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter				
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150			
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1			
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter				
34221	Anthracene, water, filtered, recoverable, micrograms per liter				
34248	Benzofalpyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)			
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter				
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70			
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter				
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300			
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter				
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter				
34409	Isophorone, water, filtered, recoverable, micrograms per liter				
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter				
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter				
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5			
34443	Naphthalene, water, filtered, recoverable, micrograms per liter				

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS**

Code	Parameter	MCL	08/20/2011	09/15/2012	3 Vail 1MAB
	Sampling date				
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter				
34466	Phenol, water, filtered, recoverable, micrograms per liter				
34470	Pyrene, water, filtered, recoverable, micrograms per liter				
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5			
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter				
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150			
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5			
34501	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	6			
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200			
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5			
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1			
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600			
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5			
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10			
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5			
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter				
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5			
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter				
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter				
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter				
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5			
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5			
38454	Dicropthos, water, filtered, recoverable, micrograms per liter				
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter				
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter				
39036	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate				
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		234	296	
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5			
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5			
39381	Dieldrin, water, filtered, recoverable, micrograms per liter				
39415	Metolachlor, water, filtered, recoverable, micrograms per liter				
39532	Malathion, water, filtered, recoverable, micrograms per liter				
39572	Diazinon, water, filtered, recoverable, micrograms per liter				
39632	Atrazine, water, filtered, recoverable, micrograms per liter				
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter				
46342	Alachlor, water, filtered, recoverable, micrograms per liter				
49260	Acetochlor, water, filtered, recoverable, micrograms per liter				
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
49933	C-14, water, filtered, percent modern				
49934	C-14, counting error, water, filtered, percent modern				
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter				
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter				
50004	tert-Butyl ether, water, unfiltered, recoverable, micrograms per liter				
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter				
50305	Caffeine, water, filtered, recoverable, micrograms per liter				

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS**

Code	Parameter	MCL	3 Vail 1MAB	
			08/20/2011	09/15/2012
	Sampling date			
50359	Metaalaxyl, water, filtered, recoverable, micrograms per liter			
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6		
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter			
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter			
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter			
61593	Iprodione, water, filtered, recoverable, micrograms per liter			
61594	Isofenphos, water, filtered, recoverable, micrograms per liter			
61596	Metaalaxyl, water, filtered, recoverable, micrograms per liter			
61598	Methidathion, water, filtered, recoverable, micrograms per liter			
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter			
61601	Phosmet, water, filtered, recoverable, micrograms per liter			
61610	Tribuphos, water, filtered, recoverable, micrograms per liter			
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter			
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter			
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter			
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter			
61635	Az-inphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter			
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter			
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter			
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter			
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter			
61652	Malaoxon, water, filtered, recoverable, micrograms per liter			
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter			
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter			
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter			
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter			
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter			
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter			
62005	Cotinine, water, filtered, recoverable, micrograms per liter			
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter			
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter			
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter			
62057	3-beta-Coprostano, water, filtered, recoverable, micrograms per liter			
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter			
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter			
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter			
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter			
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter			
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter			
62064	Acetophenone, water, filtered, recoverable, micrograms per liter			
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter			
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter			
62067	Benzophenone, water, filtered, recoverable, micrograms per liter			
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter			
62070	Camphor, water, filtered, recoverable, micrograms per liter			
62071	Carbazole, water, filtered, recoverable, micrograms per liter			
62072	Cholesterol, water, filtered, recoverable, micrograms per liter			

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS**

Code	Parameter	MCL	3 Vail 1MAB	
			08/20/2011	09/15/2012
	Sampling date			
62073	D-Limonene, water, filtered, recoverable, micrograms per liter			
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter			
62076	Indole, water, filtered, recoverable, micrograms per liter			
62077	Isoborneol, water, filtered, recoverable, micrograms per liter			
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter			
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter			
62080	Menthol, water, filtered, recoverable, micrograms per liter			
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter			
62082	DEET, water, filtered, recoverable, micrograms per liter			
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter			
62084	p-Cresol, water, filtered, recoverable, micrograms per liter			
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter			
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter			
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter			
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter			
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter			
62090	Triclosan, water, filtered, recoverable, micrograms per liter			
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter			
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter			
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter			
62166	Fipronil, water, filtered, recoverable, micrograms per liter			
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter			
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter			
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter			
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter			
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter			
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6		
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	600	629
70301	Residue, water, filtered, sum of constituents, milligrams per liter		578	647
70303	Residue, water, filtered, tons per acre-foot			
71846	Ammonia, water, filtered, milligrams per liter as NH4		3.71	6.58
71851	Nitrate, water, filtered, milligrams per liter	45 (g)	< 0.089	< 0.17
71856	Nitrite, water, filtered, milligrams per liter		< 0.010	0.005
71865	Iodide, water, filtered, milligrams per liter		0.025	0.03
71870	Bromide, water, filtered, milligrams per liter		0.46	0.45
72019	Depth to water level, feet below land surface			
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter			
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter			
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter			
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter			
77041	Carbon disulfide, water, unfiltered, micrograms per liter			
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6		
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter			
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100		
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter			
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter			
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter			

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS**

Code	Parameter	MCL	08/20/2011	09/15/2012	3 Vail 1MAB
	Sampling date				
7173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter				
7174	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter				
7220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter				
7221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				
7222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				
7223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter				
7224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter				
7226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter				
7275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter				
7277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter				
7297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter				
7342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				
7350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				
7353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				
7356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter				
7424	Iodomethane, water, unfiltered, recoverable, micrograms per liter				
7443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter				
7562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter				
7613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter				
7652	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter				
7651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter				
7652	1,1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter	0.05			
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter				
78109	3-Chloropropane, water, unfiltered, recoverable, micrograms per liter				
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				
81552	Acetone, water, unfiltered, recoverable, micrograms per liter				
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter				
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter				
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter				
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter				
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter				
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter				
82081	C-13/C-12 ratio, water, unfiltered, per mil				
82082	Deuterium/Protium ratio, water, unfiltered, per mil				
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-19.5	-14.4	
82303	Rn-222, water, unfiltered, picocuries per liter		-1.17	-0.11	
82346	Ethion, water, filtered, recoverable, micrograms per liter				
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter				
82630	Metribuzin, water, filtered, recoverable, micrograms per liter				
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				

Source: USGS California Water Science Center.

**Water Quality Data for Vail Lake (USGS Station No. 11042510)
RCWD Water Quality Sampling Station No. 3 Vail 1MAB
Data Collected by USGS**

Code	Parameter	MCL	3 Vail 1MAB	
			08/20/2011	09/15/2012
	Sampling date			
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter			
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter			
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius	974		1070
90851	Triholomethanes, water, unfiltered, calcd, micrograms per liter			
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery			
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery			
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery			
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery			
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery			
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery			
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery			
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery			
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery			

Notes:

Station No. 3 Vail 1MAB located near upstream face of Vail Dam, sample depth one meter above reservoir bottom. Total capacity, 49,370 acre feet, between elevations 1,352.5 feet, bottom of lowest outlet, and 1,470 feet, crest of spillway.

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPASTORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPASTORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

ANNUAL REPORT

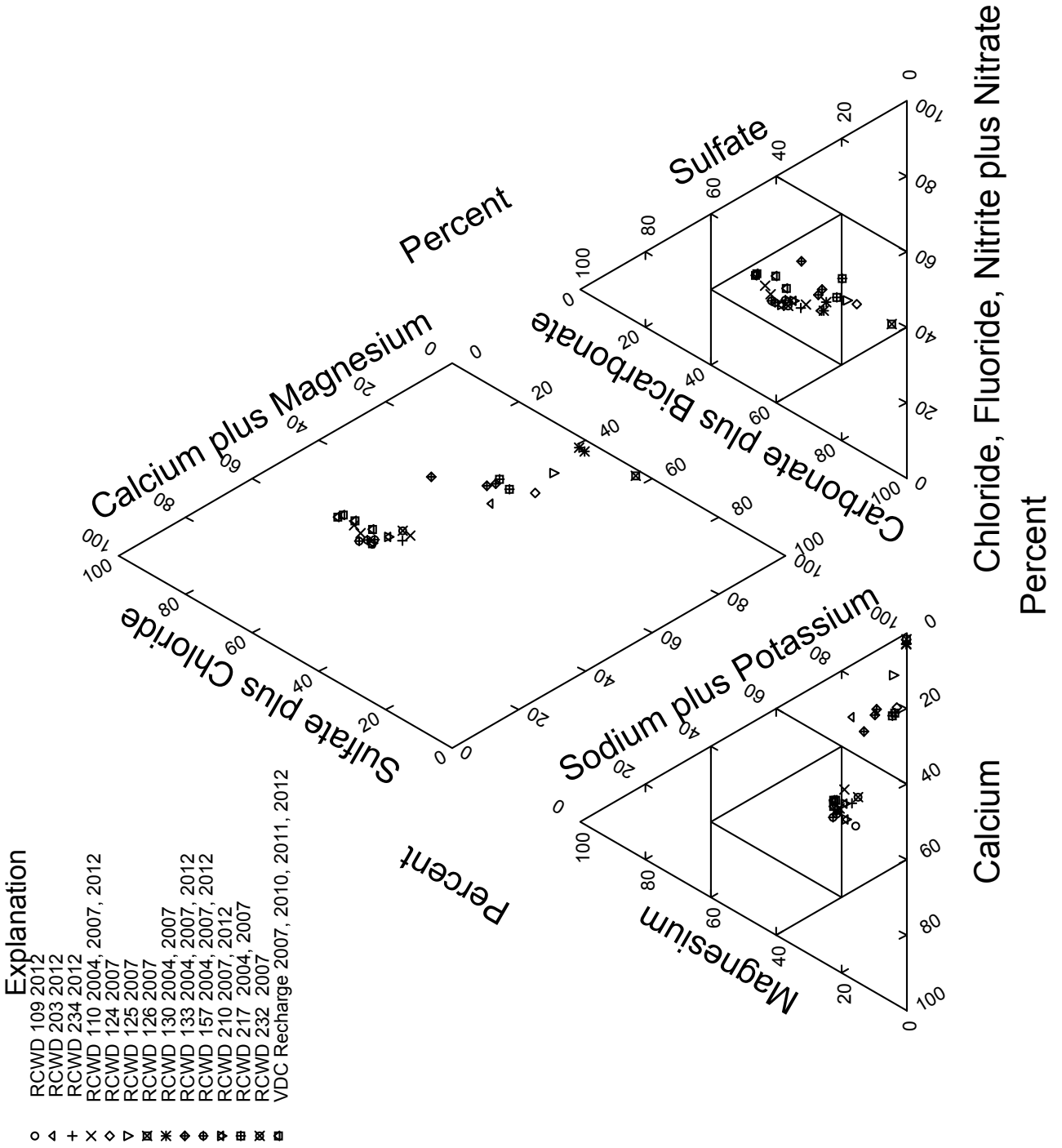
**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

APPENDIX E

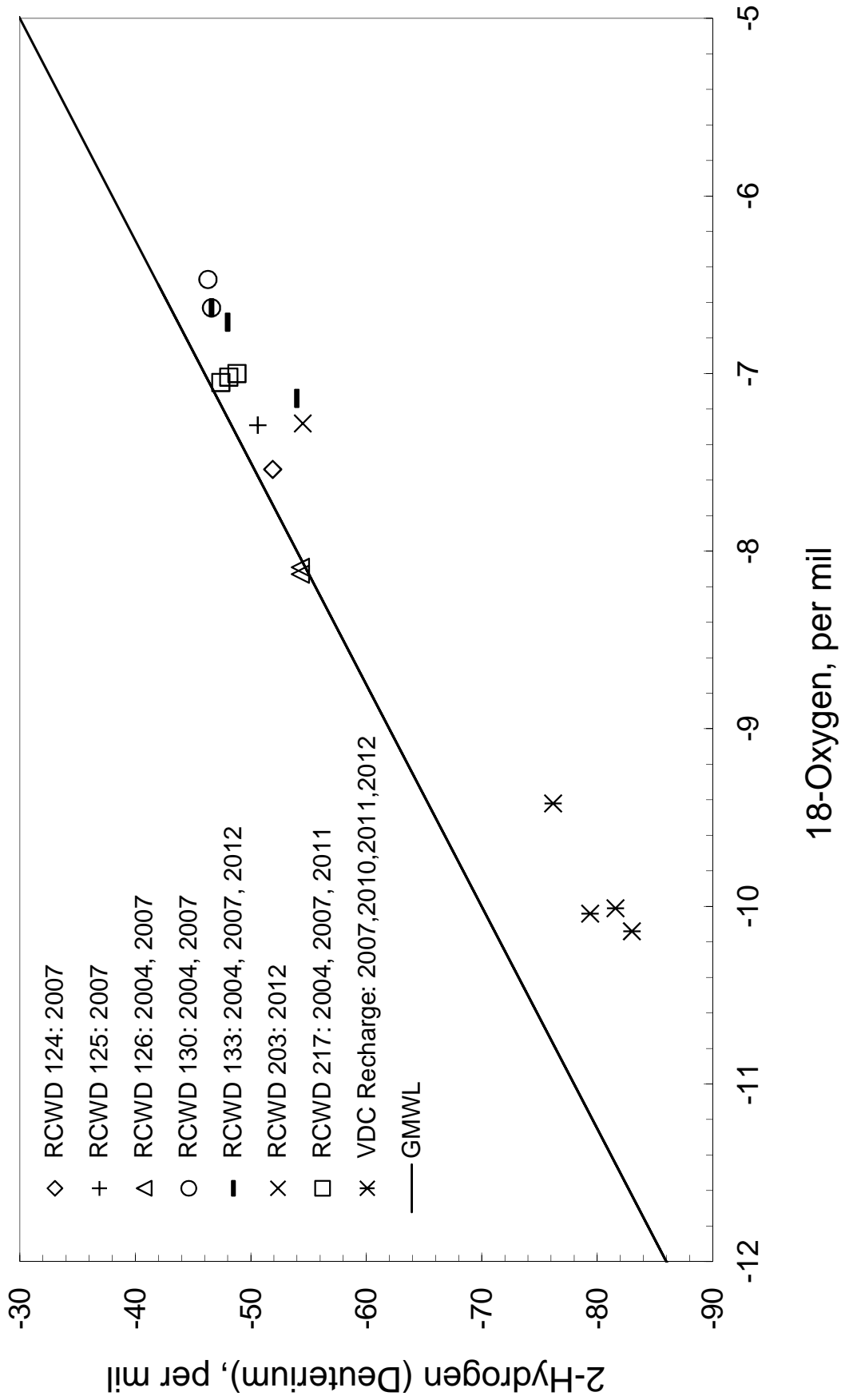
**WATER QUALITY DATA FOR
SELECTED RCWD PRODUCTION WELLS**

Tri-Linear Diagram RCWD Production Wells



Stable Isotope Diagram

Pauba Valley Production Wells Completed in Temecula Aquifer



Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110 06/15/2004	No. 126 05/27/2004	No. 130 06/14/2004	No. 133 05/20/2004
3	Sampling date					
10	Sampling depth, feet		20.2		22	21
28	Temperature, water, degrees Celsius		80020	80020	80020	80020
59	Agency analyzing sample, code					
59	Flow rate, instantaneous, gallons per minute					
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		845	510	807	818
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00003		M	0.00001
300	Dissolved oxygen, water, unfiltered, milligrams per liter		4.5		2.3	2.1
400	pH, water, unfiltered, field, standard units		7.5		8.9	7.9
403	pH, water, unfiltered, laboratory, standard units					
405	Carbon dioxide, water, unfiltered, milligrams per liter					
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter					
602	Total nitrogen, water, filtered, milligrams per liter		< 0.03		< 0.03	< 0.02
607	Organic nitrogen, water, filtered, milligrams per liter		< 0.04		< 0.04	< 0.04
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.008		< 0.008	< 0.008
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	0.502		1.28	0.519
618	Nitrate, water, filtered, milligrams per liter as nitrogen					
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		0.5		1.28	0.52
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		0.224		0.04	0.031
660	Orthophosphate, water, filtered, milligrams per liter					
666	Phosphorus, water, filtered, milligrams per liter					
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.073		0.013	0.01
900	Hardness, water, milligrams per liter as calcium carbonate		243		11.3	102
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate		130			
915	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate		61.9		4.17	25.6
925	Calcium, water, filtered, milligrams per liter		21.4		0.195	9.08
930	Magnesium, water, filtered, milligrams per liter		81.7		172	127
931	Sodium, water, filtered, milligrams per liter					
932	Sodium adsorption ratio, water, number					
932	Sodium fraction of cations, water, percent in equivalents of major cations					
935	Potassium, water, filtered, milligrams per liter		5.32		0.9	2.33
940	Chloride, water, filtered, milligrams per liter		80.5		84.8	98.8
945	Sulfate, water, filtered, milligrams per liter	600	165		87.1	96.6
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.5		0.59	1
955	Silica, water, filtered, milligrams per liter		20.1		14.3	22.2
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	0.9		0.9	3.1
1005	Barium, water, filtered, micrograms per liter	1000 (d)	33.9		2.95	52.6
1010	Beryllium, micrograms per liter	4 (e)	< 0.06		< 0.06	< 0.06
1020	Boron, water, filtered, micrograms per liter		105		< 8	726
1025	Cadmium, micrograms per liter	5 (f)	E 0.028		< 0.04	0.051
1030	Chromium, micrograms per liter	50 (g)	< 0.8		1	E 0.6
1035	Cobalt, micrograms per liter		0.151		0.027	0.066
1040	Copper, micrograms per liter	1000 (h)	2.4		V 0.4	V 1.1
1046	Iron, water, filtered, micrograms per liter	300	< 6.4		E 3.7	< 6.4
1049	Lead, micrograms per liter		0.118		< 0.8	0.146
1056	Manganese, water, filtered, micrograms per liter	50	< 0.2		0.65	E 0.19
1057	Thallium, micrograms per liter	2 (i)	< 0.04		< 0.04	< 0.04
1060	Molybdenum, micrograms per liter		7.96		1.65	4.58
1065	Nickel, micrograms per liter	100 (j)	0.4		0.14	0.53

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110 06/15/2004	No. 126 05/27/2004	No. 130 06/14/2004	No. 133 05/20/2004
	Sampling date					
1075	Silver, micrograms per liter	100 (k)	< 0.2		< 0.2	< 0.2
1080	Strontium, water, filtered, micrograms per liter		343		38.8	396
1085	Vanadium, micrograms per liter		5.8		V 0.3	43.4
1090	Zinc, micrograms per liter	5000 (l)	2.2		1.1	0.7
1095	Antimony, micrograms per liter	6 (m)	< 0.2		< 0.2	< 0.2
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	< 1.6		2.9	3.8
1130	Lithium, water, filtered, micrograms per liter		3.52		0.62	4.09
1145	Selenium, micrograms per liter	50 (o)	1.1		E 0.3	1
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter		< 0.01	< 0.01	< 0.01	< 0.01
4025	Hexazinone, water, filtered, recoverable, micrograms per liter		< 0.013	< 0.013	< 0.013	< 0.013
4029	Bromacil, water, filtered, recoverable, micrograms per liter		0.07	< 0.005	< 0.03	< 0.03
4035	Simazine, water, filtered, recoverable, micrograms per liter		0.007	< 0.005	< 0.005	0.006
4036	Prometryn, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005
4037	Prometon, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter		E 0.006	< 0.006	< 0.006	< 0.006
4095	Fonofos, water, filtered, recoverable, micrograms per liter		< 0.003	< 0.003	< 0.003	< 0.003
7000	Tritium, water, unfiltered, picocuries per liter		21.8		2.2	3.5
22703	Uranium, natural, micrograms per liter		1.09		0.245	3.56
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate					
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		0.13	< 0.028	< 0.028	E 0.088
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06	< 0.06	< 0.06	< 0.06
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.13	< 0.13	< 0.13	< 0.13
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		0.48	< 0.02	E 0.02	0.11
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	< 0.05	< 0.05	< 0.05	E 0.01
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.021	< 0.021	< 0.021	< 0.021
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 1.2	< 1.2	< 1.2	< 1.2
34221	Anthracene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05
34248	Benzol[e]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)	< 0.05		< 0.05	< 0.05
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.028	< 0.028	< 0.028	< 0.028
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.03	< 0.03	< 0.03	< 0.03
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14
34409	Isophorone, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.3	< 0.3	< 0.3	< 0.3
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.2	< 0.2
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.06	< 0.06	< 0.06	< 0.06
34443	Naphthalene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05
34466	Phenol, water, filtered, recoverable, micrograms per liter		V 0.28		V 0.27	< 0.05
34470	Pyrene, water, filtered, recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.06	< 0.06	< 0.06	< 0.06
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter		E 0.03		< 0.05	< 0.05
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.16	< 0.16	< 0.16	< 0.16

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110 06/15/2004	No. 126 05/27/2004	No. 130 06/14/2004	No. 133 05/20/2004
	Sampling date					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.035	< 0.035	< 0.035	< 0.035
34501	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.024	< 0.024	< 0.024	< 0.024
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.032	< 0.032	< 0.032	< 0.032
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.064	< 0.064	< 0.064	< 0.064
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.16	< 0.16	< 0.16	< 0.16
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.048	< 0.048	< 0.048	< 0.048
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.029	< 0.029	< 0.029	< 0.029
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.032	< 0.032	< 0.032	< 0.032
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.12	< 0.12	< 0.12	< 0.12
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.03	< 0.03	< 0.03	< 0.03
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.034	< 0.034	< 0.034	< 0.034
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.18	< 0.18	< 0.18	< 0.18
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.52	< 0.52	< 0.52	< 0.52
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.09	< 0.09	< 0.09	< 0.09
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.05	< 0.05	< 0.05	< 0.05
38454	Dicropthos, water, filtered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter		< 0.01	< 0.01	< 0.01	< 0.01
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate					
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06	< 0.06	< 0.06	< 0.06
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.038	< 0.038	< 0.038	< 0.038
39381	Dieldrin, water, filtered, recoverable, micrograms per liter		< 0.009	< 0.009	< 0.009	< 0.009
39415	Metolachlor, water, filtered, recoverable, micrograms per liter		< 0.013	< 0.013	< 0.013	< 0.013
39532	Malathion, water, filtered, recoverable, micrograms per liter		< 0.027	< 0.027	< 0.027	< 0.027
39572	Diazinon, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005
39632	Atrazine, water, filtered, recoverable, micrograms per liter		< 0.007	< 0.007	< 0.007	< 0.007
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14
46342	Alachlor, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005
49260	Acetochlor, water, filtered, recoverable, micrograms per liter		< 0.006	< 0.006	< 0.006	< 0.006
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.0882	< 0.0882	< 0.0882	< 0.0882
49933	C-14, water, filtered, percent modern		92.4		75.42	69.67
49934	C-14, counting error, water, filtered, percent modern					
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 2	< 2	< 2	< 2
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08
50305	Caffeine, water, filtered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1
50359	Metaxyl, water, filtered, recoverable, micrograms per liter		< 0.02	< 0.02	< 0.02	< 0.02
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6	2.2	0.49	0.49	< 0.25
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter		< 0.008	< 0.008	< 0.008	< 0.008
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter		< 0.009	< 0.009	< 0.009	< 0.009
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter		< 0.029	< 0.029	< 0.029	< 0.029
61593	Iprodione, water, filtered, recoverable, micrograms per liter		< 1.42	< 1.42	< 1.42	< 1.42
61594	Isofenphos, water, filtered, recoverable, micrograms per liter		< 0.003	< 0.003	< 0.003	< 0.003
61596	Metaxyl, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110 06/15/2004	No. 126 05/27/2004	No. 130 06/14/2004	No. 133 05/20/2004
	Sampling date					
61598	Methicidation, water, filtered, recoverable, micrograms per liter		< 0.006	< 0.006	< 0.006	< 0.006
61599	Myclobutaniol, water, filtered, recoverable, micrograms per liter		< 0.008	< 0.008	< 0.008	< 0.008
61601	Phosmet, water, filtered, recoverable, micrograms per liter		< 0.008	< 0.008	< 0.008	< 0.008
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					
61618	2-Chloro-2'-diethylacetanilide, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005
61620	2-Ethyl-16-methylanioline, water, filtered, recoverable, micrograms per liter		< 0.005	< 0.005	< 0.005	< 0.005
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter		< 0.0045	< 0.0045	< 0.0045	< 0.0045
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter		< 0.0056	< 0.0056	< 0.0056	< 0.0056
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.016	< 0.016	< 0.016	< 0.016
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter		< 0.034	< 0.034	< 0.034	< 0.034
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter		< 0.008	< 0.008	< 0.008	< 0.008
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter		< 0.03	< 0.03	< 0.03	< 0.03
61652	Malaoxon, water, filtered, recoverable, micrograms per liter		< 0.008	< 0.008	< 0.008	< 0.008
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter		< 0.03	< 0.03	< 0.03	< 0.03
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.097	< 0.097	< 0.097	< 0.097
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.097	< 0.097	< 0.097	< 0.097
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter		< 0.068	< 0.068	< 0.068	< 0.068
61705	Diethoxyacetylphenol, water, filtered, recoverable, micrograms per liter		< 1	< 1	< 1	< 1
61706	Monoethoxyacetylphenol, water, filtered, recoverable, micrograms per liter		< 1	< 1	< 1	< 1
62005	Cotinine, water, filtered, recoverable, micrograms per liter		< 0.019	< 0.019	< 0.019	< 0.019
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter		< 2	< 2	< 2	< 2
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter		< 1	< 1	< 1	< 1
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter		< 5	< 5	< 5	< 5
62061	4-Cumylphenol, water, filtered, recoverable, micrograms per liter		< 1	< 1	< 1	< 1
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter		< 1	< 1	< 1	< 1
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter		< 2	< 2	< 2	< 2
62064	Acetophenone, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62067	Benzophenone, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter		< 2	< 2	< 2	< 2
62070	Camphor, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62071	Carbazole, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62072	Cholesterol, water, filtered, recoverable, micrograms per liter		< 2	< 2	< 2	< 2
62073	D-Limonene, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62076	Indole, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62077	Isoborneol, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62080	Menthol, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
62082	DEET, water, filtered, recoverable, micrograms per liter		E 0.06			< 0.5

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110 06/15/2004	No. 126 05/27/2004	No. 130 06/14/2004	No. 133 05/20/2004
	Sampling date					
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter		< 5		< 5	< 5
62084	p-Cresol, water, filtered, recoverable, micrograms per liter		< 1		< 1	< 1
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter		< 5		< 5	< 5
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter		< 2		< 2	< 2
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5
62090	Triclosan, water, filtered, recoverable, micrograms per liter		< 1		< 1	< 1
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5
62166	Fipronil, water, filtered, recoverable, micrograms per liter		< 0.016	< 0.016	< 0.016	< 0.016
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter		< 0.013	< 0.013	< 0.013	< 0.013
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter		< 0.024	< 0.024	< 0.024	< 0.024
62169	Desulfinfipronil amide, water, filtered, recoverable, micrograms per liter		< 0.029	< 0.029	< 0.029	< 0.029
62170	Desulfinfipronil, water, filtered, recoverable, micrograms per liter		< 0.012	< 0.012	< 0.012	< 0.012
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter		0.53	1.31	1.31	0.54
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6				
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	532		478	494
70301	Residue, water, filtered, sum of constituents, milligrams per liter		E 508		V 460	V 473
70303	Residue, water, filtered, tons per acre-foot					
71846	Ammonia, water, filtered, milligrams per liter as NH4		< 0.052		< 0.052	< 0.052
71851	Nitrate, water, filtered, milligrams per liter		2.22		5.68	2.3
71856	Nitrite, water, filtered, milligrams per liter	45 (q)	< 0.026		< 0.026	< 0.026
71865	Iodide, water, filtered, milligrams per liter					
71870	Bromide, water, filtered, milligrams per liter		0.15		0.34	0.37
72019	Depth to water level, feet below land surface					
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.7	< 0.7	< 0.7	< 0.7
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.18	< 0.18	< 0.18	< 0.18
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1.3	0.6	1	0.6
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		28		24	23
77041	Carbon disulfide, water, unfiltered, micrograms per liter		< 0.038	< 0.038	< 0.038	< 0.038
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.024	< 0.024	< 0.024	< 0.024
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.7	< 0.7	< 0.7	< 0.7
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.042	< 0.042	< 0.042	< 0.042
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.038	< 0.038	< 0.038	< 0.038
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.026	< 0.026	< 0.026	< 0.026
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.056	< 0.056	< 0.056	< 0.056
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.038	< 0.038	< 0.038	< 0.038
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.042	< 0.042	< 0.042	< 0.042
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.044	< 0.044	< 0.044	< 0.044
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004

Code	Parameter	MCL	No. 110 06/15/2004	No. 126 05/27/2004	No. 130 06/14/2004	No. 133 05/20/2004
	Sampling date					
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.35	< 0.35	< 0.35	< 0.35
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.18	< 0.18	< 0.18	< 0.18
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.03	< 0.03	< 0.03	< 0.03
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.27	< 0.27	< 0.27	< 0.27
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.036	< 0.036	< 0.036	< 0.036
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.038	< 0.038	< 0.038	< 0.038
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.17	< 0.17	< 0.17	< 0.17
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.37	< 0.37	< 0.37	< 0.37
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 6	< 6	< 6	< 6
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.028	< 0.028	< 0.028	< 0.028
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.76	< 0.76	< 0.76	< 0.76
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 4	< 4	< 4	< 4
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.35	< 0.35	< 0.35	< 0.35
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 2.2	< 2.2	< 2.2	< 2.2
82081	C-13/C-12 ratio, water, unfiltered, per mil		-11		-14.2	-14.1
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-85	-54.3	-46.6	-46
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-10.5	-8.13	-6.63	-6.4
82303	Rn-222, water, unfiltered, picocuries per liter		210		420	310
82346	Ethion, water, filtered, recoverable, micrograms per liter		< 0.004	< 0.004	< 0.004	< 0.004
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.51	< 0.51	< 0.51	< 0.51
82630	Metribuzin, water, filtered, recoverable, micrograms per liter		< 0.006	< 0.006	< 0.006	< 0.006
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.006	< 0.006	< 0.006	< 0.006
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.009	< 0.009	< 0.009	< 0.009
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.0061	< 0.0061	< 0.0061	< 0.0061
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.011	< 0.011	< 0.011	< 0.011
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.015	< 0.015	< 0.015	< 0.015
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.016	< 0.016	< 0.016	< 0.016
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.01	< 0.01	< 0.01	< 0.01
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.017	< 0.017	< 0.017	< 0.017
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.004	< 0.004	< 0.004	< 0.004
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.041	< 0.041	< 0.041	< 0.041
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.003	< 0.003	< 0.003	< 0.003
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.022	< 0.022	< 0.022	< 0.022
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.05	< 0.05	< 0.05	< 0.05
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.006	< 0.006	< 0.006	< 0.006
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius					
90851	Triholomethanes, water, unfiltered, calcd, micrograms per liter					
90867	Triholomehanes, water, unfiltered, calcd, micrograms per liter					
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 126, 130, and 133
2004**

Code	Parameter	MCL	No. 110	No. 126	No. 130	No. 133
	Sampling date		06/15/2004	05/27/2004	06/14/2004	05/20/2004
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery					
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery					
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery					

Notes:

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004**

Code	Parameter	MCL	No. 157		No. 157 07/26/2004	No. 217 05/19/2004	No. 232 05/24/2004
			05/27/2004				
	Sampling date						
3	Sampling depth, feet						
10	Temperature, water, degrees Celsius		16.5	19	24.1	19.5	
28	Agency analyzing sample, code		80020	80020	80020	80020	
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		783	858	704	1020	
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter			0.00003	0.00001		
300	Dissolved oxygen, water, unfiltered, milligrams per liter			3.5	4.6		
400	pH, water, unfiltered, field, standard units			7.5	8.1		
403	pH, water, unfiltered, laboratory, standard units						
405	Carbon dioxide, water, unfiltered, milligrams per liter						
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter						
602	Total nitrogen, water, filtered, milligrams per liter						
607	Organic nitrogen, water, filtered, milligrams per liter			< 0.06			
608	Ammonia, water, filtered, milligrams per liter as nitrogen			< 0.04	< 0.04		
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		< 0.008	0.028		
618	Nitrate, water, filtered, milligrams per liter as nitrogen			0.411	3.81		
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen						
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen			0.41	3.84		
660	Orthophosphate, water, filtered, milligrams per liter			0.113	0.046		
666	Phosphorus, water, filtered, milligrams per liter						
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus			0.037	0.015		
900	Hardness, water, milligrams per liter as calcium carbonate			261	76.6		
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate			120			
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						
915	Calcium, water, filtered, milligrams per liter			65	25.6		
925	Magnesium, water, filtered, milligrams per liter			23.7	3		
930	Sodium, water, filtered, milligrams per liter			76.6	116		
931	Sodium adsorption ratio, water, number						
932	Sodium fraction of cations, water, percent in equivalents of major cations						
935	Potassium, water, filtered, milligrams per liter			4.29	1.77		
940	Chloride, water, filtered, milligrams per liter	600		79.9	86.8		
945	Sulfate, water, filtered, milligrams per liter	600		173	61.1		
950	Fluoride, water, filtered, milligrams per liter	2 (b)		0.27	0.82		
955	Silica, water, filtered, milligrams per liter			13.1	18.2		
1000	Arsenic, water, filtered, micrograms per liter	10 (c)		0.5	7.8		
1005	Barium, water, filtered, micrograms per liter	1000 (d)		34.9	62.8		
1010	Beryllium, micrograms per liter	4 (e)		< 0.06	< 0.06		
1020	Boron, water, filtered, micrograms per liter			159	299		
1025	Cadmium, micrograms per liter	5 (f)		E 0.022	< 0.04		
1030	Chromium, micrograms per liter	50 (g)		< 0.8	1.6		
1035	Cobalt, micrograms per liter			0.2	0.069		
1040	Copper, micrograms per liter	1000 (h)		4.9	V 0.9		
1046	Iron, water, filtered, micrograms per liter	300		< 6.4	E 6		
1049	Lead, micrograms per liter			0.936	0.111		
1056	Manganese, water, filtered, micrograms per liter	50		0.29	< 0.2		
1057	Thallium, micrograms per liter	2 (i)		< 0.04	< 0.04		
1060	Molybdenum, micrograms per liter			4.11	2.04		
1065	Nickel, micrograms per liter	100 (i)		1.33	0.55		

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004**

Code	Parameter	MCL	No. 157			No. 217			No. 232					
			05/27/2004	07/26/2004	05/19/2004	05/19/2004	05/24/2004	05/19/2004	05/24/2004	05/24/2004				
	Sampling date													
1075	Silver, micrograms per liter	100 (k)				< 0.2			< 0.2					
1080	Strontium, water, filtered, micrograms per liter					706			277					
1085	Vanadium, micrograms per liter					3			69					
1090	Zinc, micrograms per liter	5000 (l)				2.9			E 0.6					
1095	Antimony, micrograms per liter	6 (m)				E 0.112			< 0.2					
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)				< 1.6			4.8					
1130	Lithium, water, filtered, micrograms per liter					17.4			4.15					
1145	Selenium, micrograms per liter	50 (o)				1.3			1.8					
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter		E 0.006						< 0.01					< 0.01
4025	Hexazinone, water, filtered, recoverable, micrograms per liter		E 0.01						< 0.013					< 0.013
4029	Bromacil, water, filtered, recoverable, micrograms per liter					< 0.03			< 0.03					< 0.03
4035	Simazine, water, filtered, recoverable, micrograms per liter		0.017						0.006					< 0.005
4036	Prometryn, water, filtered, recoverable, micrograms per liter		0.008			< 0.005			< 0.005					< 0.005
4037	Prometon, water, filtered, recoverable, micrograms per liter		0.007			< 0.005			< 0.005					< 0.005
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter		E 0.005			< 0.03			< 0.006					< 0.006
4095	Fonofos, water, filtered, recoverable, micrograms per liter		< 0.003						< 0.003					< 0.003
7000	Tritium, water, unfiltered, picocuries per liter		20.5						1.6					10.6
22703	Uranium, natural, micrograms per liter					2.67			2.55					
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate													
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.05						< 0.05					< 0.05
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		0.112						< 0.028					< 0.028
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06						< 0.06					< 0.06
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.13						< 0.13					< 0.13
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.1						< 0.1					< 0.1
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1						< 0.1					< 0.1
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		0.49						< 0.02					< 0.02
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	< 0.05						E 0.01					< 0.05
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.021						< 0.021					< 0.021
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 1.2						< 1.2					< 1.2
34221	Anthracene, water, filtered, recoverable, micrograms per liter								< 0.05					< 0.05
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)							< 0.05					< 0.05
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter								< 0.05					< 0.05
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.028						< 0.028					< 0.028
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.12						< 0.12					< 0.12
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.03						< 0.03					< 0.03
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter								< 0.05					< 0.05
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.14						< 0.14					< 0.14
34409	Isophorone, water, filtered, recoverable, micrograms per liter								< 0.05					< 0.05
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.3						< 0.3					< 0.3
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.2						< 0.2					< 0.2
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	E 0.03						< 0.06					< 0.06
34443	Naphthalene, water, filtered, recoverable, micrograms per liter								< 0.05					< 0.05
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter								< 0.05					< 0.05
34466	Pyrene, water, filtered, recoverable, micrograms per liter								< 0.05					< 0.05
34470	Pyrene, water, filtered, recoverable, micrograms per liter								E 0.011					< 0.06
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.06						< 0.05					< 0.05
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter								< 0.05					< 0.05
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.16						< 0.16					< 0.16

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004**

Code	Parameter	MCL	No. 157		No. 157	No. 217	No. 232
			05/27/2004	07/26/2004			
	Sampling date						
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.035		05/19/2004	< 0.035	05/24/2004
34501	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	6	< 0.024			< 0.024	< 0.024
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.032			< 0.032	< 0.032
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.064			< 0.064	< 0.064
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.16			< 0.16	< 0.16
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.048			< 0.048	< 0.048
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.029			< 0.029	< 0.029
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.032			< 0.032	< 0.032
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.12			< 0.12	< 0.12
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.03			< 0.03	< 0.03
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.034			< 0.034	< 0.034
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter					< 0.05	
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.18			< 0.18	< 0.18
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.52			< 0.52	< 0.52
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.09			< 0.09	< 0.09
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.05			< 0.05	< 0.05
38454	Dicropthos, water, filtered, recoverable, micrograms per liter		< 0.08			< 0.08	< 0.08
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter		< 0.01			< 0.01	< 0.01
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter		< 0.005			< 0.005	< 0.005
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate						
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06			< 0.06	< 0.06
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.038			< 0.038	< 0.038
39381	Dieldrin, water, filtered, recoverable, micrograms per liter		< 0.009			< 0.009	< 0.009
39415	Metolachlor, water, filtered, recoverable, micrograms per liter		< 0.013			< 0.013	< 0.013
39532	Malathion, water, filtered, recoverable, micrograms per liter		< 0.027			< 0.027	< 0.027
39572	Diazinon, water, filtered, recoverable, micrograms per liter		< 0.005			< 0.005	< 0.005
39632	Atrazine, water, filtered, recoverable, micrograms per liter		< 0.007	< 0.009		< 0.007	< 0.007
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.14			< 0.14	< 0.14
46342	Alachlor, water, filtered, recoverable, micrograms per liter		< 0.005			< 0.005	< 0.005
49260	Acetochlor, water, filtered, recoverable, micrograms per liter		< 0.006			< 0.006	< 0.006
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.0882			< 0.0882	< 0.0882
49933	C-14, water, filtered, percent modern		91.45			74.09	
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 2			< 2	< 2
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14			< 0.14	< 0.14
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14			< 0.14	< 0.14
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.1			< 0.1	< 0.1
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.05			< 0.05	< 0.05
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.08			< 0.08	< 0.08
50305	Caffeine, water, filtered, recoverable, micrograms per liter			< 0.01		0.17	
50359	Metaxaly, water, filtered, recoverable, micrograms per liter			< 0.02		< 0.02	
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6		0.74		1.4	
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter		< 0.008			< 0.008	< 0.008
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter		< 0.009			< 0.009	< 0.009
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter		< 0.029			< 0.029	< 0.029
61593	Iprodione, water, filtered, recoverable, micrograms per liter		< 1.42			< 1.42	< 1.42
61594	Isofenphos, water, filtered, recoverable, micrograms per liter		< 0.003			< 0.003	< 0.003
61596	Metaxaly, water, filtered, recoverable, micrograms per liter		< 0.005			< 0.005	< 0.005

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004**

Code	Parameter	MCL	No. 157		No. 157 07/26/2004	No. 217 05/19/2004	No. 232 05/24/2004
			05/27/2004	07/26/2004			
	Sampling date						
61598	Methadathion, water, filtered, recoverable, micrograms per liter		< 0.006			< 0.006	< 0.006
61599	Myclobutani, water, filtered, recoverable, micrograms per liter		< 0.008			< 0.008	< 0.008
61601	Phosmet, water, filtered, recoverable, micrograms per liter		< 0.008			< 0.008	< 0.008
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, micrograms per liter		< 0.005			< 0.005	< 0.005
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter		< 0.005			< 0.005	< 0.005
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter		0.0085			< 0.0045	< 0.0045
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter		< 0.0056			< 0.0056	< 0.0056
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.016			< 0.016	< 0.016
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.06			< 0.06	< 0.06
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter		< 0.034			< 0.034	< 0.034
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter		< 0.008			< 0.008	< 0.008
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter		< 0.03			< 0.03	< 0.03
61652	Malaoxon, water, filtered, recoverable, micrograms per liter		< 0.008			< 0.008	< 0.008
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter		< 0.03			< 0.03	< 0.03
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.097			< 0.097	< 0.097
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter		< 0.097			< 0.097	< 0.097
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter		< 0.068			< 0.068	< 0.068
61705	Diethoxyacetylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monothoxyacetylphenol, water, filtered, recoverable, micrograms per liter					< 0.019	< 0.019
62005	Cotinine, water, filtered, recoverable, micrograms per liter					< 1	< 1
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					< 2	< 2
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter					< 1	< 1
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter					< 5	< 5
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					< 1	< 1
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter					< 2	< 2
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					< 2	< 2
62070	Camphor, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62071	Carbazole, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					< 2	< 2
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62076	Indole, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62080	Menthol, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5
62082	DEET, water, filtered, recoverable, micrograms per liter					< 0.5	< 0.5

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004**

Code	Parameter	MCL	No. 157			No. 217			No. 232					
			05/27/2004	07/26/2004	05/19/2004	05/19/2004	05/24/2004	05/27/2004	07/26/2004	05/19/2004	05/24/2004			
	Sampling date													
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter													
62084	p-Cresol, water, filtered, recoverable, micrograms per liter													
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter													
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter													
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter													
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter													
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter													
62090	Triclosan, water, filtered, recoverable, micrograms per liter													
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter													
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter													
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter													
62166	Fipronil, water, filtered, recoverable, micrograms per liter		< 0.016											
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter		< 0.013											
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter		< 0.024											
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter		< 0.029											
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter		< 0.012											
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter				0.47									
63790	Perchlorate, water, filtered, recoverable, micrograms per liter	6												
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500												
70301	Residue, water, filtered, sum of constituents, milligrams per liter													
70303	Residue, water, filtered, tons per acre-foot													
71846	Ammonia, water, filtered, milligrams per liter as NH4													
71851	Nitrate, water, filtered, milligrams per liter													
71856	Nitrite, water, filtered, milligrams per liter													
71865	Iodide, water, filtered, milligrams per liter	45 (q)												
71870	Bromide, water, filtered, milligrams per liter													
72019	Depth to water level, feet below land surface													
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.7											
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.7											
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1.3											
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter													
77041	Carbon disulfide, water, unfiltered, micrograms per liter													
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.038											
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.024											
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.7											
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.038											
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.026											
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.05											
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06											
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.06											
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06											
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.056											
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.038											
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.042											
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.044											
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04											
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.05											
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.12											

Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004

Code	Parameter	MCL	No. 157	No. 157	No. 217	No. 232
			05/27/2004	07/26/2004	05/19/2004	05/24/2004
	Sampling date					
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12		< 0.12	< 0.12
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06		< 0.06	< 0.06
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.06		< 0.06	< 0.06
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08		< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.35		< 0.35	< 0.35
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.18		< 0.18	< 0.18
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.03		< 0.03	< 0.03
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.27		< 0.27	< 0.27
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.26		< 0.26	< 0.26
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.038		< 0.038	< 0.038
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.17		< 0.17	< 0.17
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.5		< 0.5	< 0.5
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.37		< 0.37	< 0.37
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 6		< 6	< 6
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.028		< 0.028	< 0.028
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1		< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1		< 0.1	< 0.1
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.76		< 0.76	< 0.76
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 4		< 4	< 4
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.35		< 0.35	< 0.35
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 2.2		< 2.2	< 2.2
82081	C-13/C-12 ratio, water, unfiltered, per mil		-10.5		-16.5	-16.5
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-80.7		-48.1	-46
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-10.02		-7.02	-5.9
82303	Rn-222, water, unfiltered, picocuries per liter			270	410	
82346	Ethion, water, filtered, recoverable, micrograms per liter		< 0.004		< 0.004	< 0.004
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.51		< 0.51	< 0.51
82630	Metribuzin, water, filtered, recoverable, micrograms per liter		< 0.006		< 0.006	< 0.006
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.006		< 0.006	< 0.006
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.009		< 0.009	< 0.009
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.0061		< 0.0061	< 0.0061
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.011		< 0.011	< 0.011
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.015		< 0.015	< 0.015
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.016	< 0.026	< 0.016	< 0.016
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.01		< 0.01	< 0.01
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.017		< 0.017	< 0.017
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.004		< 0.004	< 0.004
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.041		< 0.041	< 0.041
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.003		< 0.003	< 0.003
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.022		< 0.022	< 0.022
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.05		< 0.05	< 0.05
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter		< 0.006		< 0.006	< 0.006
85795	m-Xylene plus p-xylene, water, unfiltered, laboratory, microsiemens per liter		< 0.06		< 0.06	< 0.06
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius					
90851	Trihalomethanes, water, unfiltered, calcd, micrograms per liter					
90867	Trihalomethanes, water, unfiltered, calcd, micrograms per liter					
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 157, 217, and 232
2004**

Code	Parameter	MCL	No. 157		No. 217	No. 232
			05/27/2004	07/26/2004		
	Sampling date					
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery					
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery					
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery					

Notes:

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 124, 125, 126, and 130
2007**

Code	Parameter	MCL	No. 110 09/17/2007	No. 124 09/19/2007	No. 125 09/27/2007	No. 126 09/18/2007	No. 130 09/19/2007
3	Sampling date						
10	Sampling depth, feet						
10	Temperature, water, degrees Celsius		18.5	22	23.5	26	21
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		834	585	733	531	807
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00004	M	0.00001	M	M
300	Dissolved oxygen, water, unfiltered, milligrams per liter		2.9	1.4	0.9	< 0.2	1.9
400	pH, water, unfiltered, field, standard units		7.4	8.7	8.3	9.1	8.8
403	Carbon dioxide, water, unfiltered, milligrams per liter						
405	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter						
602	Total nitrogen, water, filtered, milligrams per liter						
607	Organic nitrogen, water, filtered, milligrams per liter					E 0.01	< 0.07
608	Ammonia, water, filtered, milligrams per liter as nitrogen					E 0.012	< 0.02
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)				0.049	E 0.002
618	Nitrate, water, filtered, milligrams per liter as nitrogen					0.23	E 0.16
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen					0.28	1.16
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen					0.083	0.041
660	Orthophosphate, water, filtered, milligrams per liter						
666	Phosphorus, water, filtered, milligrams per liter						
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus						
900	Hardness, water, milligrams per liter as calcium carbonate		239	57.9	47.1	0.027	0.013
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate					4.21	72.7
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate		113				
915	Calcium, water, filtered, milligrams per liter		60.1	19.7	13.1	1.55	4.33
925	Magnesium, water, filtered, milligrams per liter		21.5	2.05	3.41	0.072	15
930	Sodium, water, filtered, milligrams per liter		77	96.9	140	108	167
931	Sodium adsorption ratio, water, number						
932	Sodium fraction of cations, water, percent in equivalents of major cations						
935	Potassium, water, filtered, milligrams per liter		4.88	1.48	1.87	0.42	0.74
940	Chloride, water, filtered, milligrams per liter	600	81	71.8	93.4	62.2	82.4
945	Sulfate, water, filtered, milligrams per liter	600	166	39.8	61.1	11.4	94
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.38	0.98	0.53	3.61	0.53
955	Silica, water, filtered, milligrams per liter		15	17.2	16.5	14.8	13.3
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	0.81	11.4	3.3	25.1	3.6
1005	Barium, water, filtered, micrograms per liter	1000 (d)	38.2	67.5	95	13.7	20.9
1010	Beryllium, micrograms per liter	4 (e)	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1020	Boron, water, filtered, micrograms per liter		140	284	368	1150	343
1025	Cadmium, micrograms per liter	5 (f)	E 0.025	< 0.04	< 0.04	E 0.027	< 0.04
1030	Chromium, micrograms per liter	50 (g)	0.18	0.72	2.2	< 0.12	0.85
1035	Cobalt, micrograms per liter		E 0.03	< 0.04	< 0.04	< 0.04	< 0.04
1040	Copper, micrograms per liter		0.86	< 0.4	0.7	E 0.23	0.66
1046	Iron, water, filtered, micrograms per liter	300	12.5	E 3.8	E 4.6	< 6	E 4.6
1049	Lead, micrograms per liter		E 0.087	< 0.12	0.143	E 0.072	E 0.072
1056	Manganese, water, filtered, micrograms per liter	50	E 0.15	0.23	0.38	0.83	E 0.12
1057	Thallium, micrograms per liter	2 (i)	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1060	Molybdenum, micrograms per liter		7.08	4.64	4.49	12.7	2.49
1065	Nickel, micrograms per liter	100 (j)	0.56	0.07	0.11	< 0.06	< 0.06

Water Quality Data for Selected RCWD Production Wells
Well Nos. 110, 124, 125, 126, and 130
2007

Code	Parameter	MCL	No. 110 09/17/2007	No. 124 09/19/2007	No. 125 09/27/2007	No. 126 09/18/2007	No. 130 09/19/2007
	Sampling date						
1075	Silver, micrograms per liter	100 (k)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1080	Strontium, water, filtered, micrograms per liter		374	262	250	26	70.1
1085	Vanadium, micrograms per liter		4.6	117	55.9	60.9	35.5
1090	Zinc, micrograms per liter	5000 (l)	1	E 0.59	1.3	E 0.37	1.2
1095	Antimony, micrograms per liter	6 (m)	E 0.049	E 0.035	< 0.06	E 0.04	< 0.06
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	< 1.6	7	5	22	5.4
1130	Lithium, water, filtered, micrograms per liter		3.22	4.57	4.92	5.01	7.90
1145	Selenium, micrograms per liter	50 (o)	1.2	1	2	0.48	1.8
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter						
4025	Hexazinone, water, filtered, recoverable, micrograms per liter						
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter						
4036	Prometryn, water, filtered, recoverable, micrograms per liter						
4037	Prometon, water, filtered, recoverable, micrograms per liter						
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter						
4095	Fonofos, water, filtered, recoverable, micrograms per liter						
7000	Tritium, water, unfiltered, picocuries per liter		18.2	1	1	0	2.6
22703	Uranium, natural, micrograms per liter		1.49	1.98	3.42	2.05	3.74
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		126	125	154	146	165
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.06	< 0.1	< 0.1
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	1.21	< 0.08	< 0.08
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	0.39	< 0.12	< 0.12
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		0.57	E 0.035	0.37	< 0.04	E 0.04
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.016	< 0.016	< 0.02	< 0.016	< 0.016
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benz[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.02	< 0.02	< 0.04	< 0.02	< 0.02
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08

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2007

Code	Parameter	MCL	No. 110 09/17/2007	No. 124 09/19/2007	No. 125 09/27/2007	No. 126 09/18/2007	No. 130 09/19/2007
	Sampling date						
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.06	< 0.06	< 0.04	< 0.06	< 0.06
34501	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.04	< 0.04	< 0.02	< 0.04	< 0.04
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.06	< 0.04	< 0.04
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.04	< 0.04	< 0.02	< 0.04	< 0.04
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.018	< 0.018	< 0.02	< 0.018	< 0.018
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.12	< 0.12	< 0.08	< 0.12	< 0.12
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.2	< 0.4	< 0.4
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06	< 0.06	< 0.1	< 0.06	< 0.06
38454	Dicropthos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate						
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.06	< 0.1	< 0.1
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern	89.82		42.46	44.86	7.7	77.59
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.6	< 0.4	< 0.4
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.06	< 0.04	< 0.04
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6	0.63	< 0.5	< 0.5	< 0.5	< 0.5
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metaxyl, water, filtered, recoverable, micrograms per liter						

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Code	Parameter	MCL	No. 110 09/17/2007	No. 124 09/19/2007	No. 125 09/27/2007	No. 126 09/18/2007	No. 130 09/19/2007
	Sampling date						
61598	Methidathion, water, filtered, recoverable, micrograms per liter						
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter						
61601	Phosmet, water, filtered, recoverable, micrograms per liter						
61610	Tribuphos, water, filtered, recoverable, micrograms per liter						
61618	2-Chloro-2-(6-diethylacetanilide), water, filtered, recoverable, micrograms per liter						
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter						
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter						
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter						
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter						
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter						
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter						
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter						
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter						
61652	Malaoxon, water, filtered, recoverable, micrograms per liter						
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter						
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter						
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter						
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter						
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menitol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						

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Code	Parameter	MCL	No. 110 09/17/2007	No. 124 09/19/2007	No. 125 09/27/2007	No. 126 09/18/2007	No. 130 09/19/2007
	Sampling date						
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter	6				0.3	1.23
63790	Perchlorate, water, filtered, recoverable, micrograms per liter						
70301	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	521	345	425	297	484
70301	Residue, water, filtered, sum of constituents, milligrams per liter		E 502	E 326	E 424	E 293	E 483
70303	Residue, water, filtered, tons per acre-foot					E 0.015	< 0.026
71846	Ammonia, water, filtered, milligrams per liter as NH4					1.02	E 5.11
71851	Nitrate, water, filtered, milligrams per liter	45 (q)				0.159	E 0.006
71856	Nitrite, water, filtered, milligrams per liter						
71865	Iodide, water, filtered, milligrams per liter						
71870	Bromide, water, filtered, milligrams per liter		0.145	0.272	0.318	0.203	0.322
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1.6	1	0.6	1	1
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		19	22	20	24	23
77041	Carbon disulfide, water, unfiltered, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.6	< 0.4	< 0.4
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77168	1,1-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	E 0.1	< 0.04	E 0.024
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06

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2007

Code	Parameter	MCL	No. 110 09/17/2007	No. 124 09/19/2007	No. 125 09/27/2007	No. 126 09/18/2007	No. 130 09/19/2007
	Sampling date						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.06	< 0.08	< 0.08
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.08	< 0.12	< 0.12
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.4	< 0.2	< 0.2
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 6	< 6	< 4	< 6	< 6
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.2	< 0.4	< 0.4
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 1	< 1	< 1	< 1	< 1
82081	C-13/C-12 ratio, water, unfiltered, per mil		-8.73	-13.39	-12.64	-11.36	-12.42
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-80.8	-51.9	-50.6	-54.3	-46.3
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-10.12	-7.54	-7.29	-8.09	-6.47
82303	Rn-222, water, unfiltered, picocuries per liter		180	330	300	360	370
82346	Ethion, water, filtered, recoverable, micrograms per liter						
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
82630	Metribuzin, water, filtered, recoverable, micrograms per liter						
82660	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82676	Propylamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius						
90851	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
90867	Triholomehtanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						

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2007**

Code	Parameter	MCL	No. 110 09/17/2007	No. 124 09/19/2007	No. 125 09/27/2007	No. 126 09/18/2007	No. 130 09/19/2007
99585	Sampling date						
99586	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99833	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99994	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99995	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes:

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007**

Code	Parameter	MCL	No. 133 09/17/2007	No. 157 09/17/2007	No. 210 09/18/2007	No. 217 09/19/2007	No. 232 09/18/2007
3	Sampling date						
	Sampling depth, feet						
10	Temperature, water, degrees Celsius		21	22.5	19	23.5	19
28	Agency analyzing sample, code		80020	80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute						
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		810	903	945	716	947
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00001	0.00004	0.00004	0.00001	0.00004
300	Dissolved oxygen, water, unfiltered, milligrams per liter		7	4.2	6	3	5.8
400	pH, water, unfiltered, field, standard units		8.1	7.4	7.4	8.2	7.4
403	Carbon dioxide, water, unfiltered, milligrams per liter						
405	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter						
453	Total nitrogen, water, filtered, milligrams per liter						
607	Organic nitrogen, water, filtered, milligrams per liter			< 0.05			
608	Ammonia, water, filtered, milligrams per liter as nitrogen			< 0.02			
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)		< 0.002			
618	Nitrate, water, filtered, milligrams per liter as nitrogen			0.105			
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen						
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen			0.11			
660	Orthophosphate, water, filtered, milligrams per liter			0.14			
666	Phosphorus, water, filtered, milligrams per liter						
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus			0.046			
900	Hardness, water, milligrams per liter as calcium carbonate		96.4	262	272	82.3	234
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate						
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate						
915	Calcium, water, filtered, milligrams per liter		24.1	111	110	67	67
925	Magnesium, water, filtered, milligrams per liter		8.7	66.3	74.7	26.7	66.3
930	Sodium, water, filtered, milligrams per liter		132	23.2	20.7	3.7	16.6
931	Sodium adsorption ratio, water, number			81.8	85.1	117	101
932	Sodium fraction of cations, water, percent in equivalents of major cations						
935	Potassium, water, filtered, milligrams per liter		2.41	4.78	5.35	1.77	4.18
940	Chloride, water, filtered, milligrams per liter	600	95	84.3	87.6	84.4	89.1
945	Sulfate, water, filtered, milligrams per liter	600	102	176	171	67.1	162
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.93	0.28	0.52	0.68	0.50
955	Silica, water, filtered, milligrams per liter		19	13.3	21.8	16.8	26.2
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	2.8	0.51	0.87	6.1	1.6
1005	Barium, water, filtered, micrograms per liter	1000 (d)	53.8	45.5	53.2	62.5	56.3
1010	Beryllium, micrograms per liter	4 (e)	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
1020	Boron, water, filtered, micrograms per liter		649	152	153	289	166
1025	Cadmium, micrograms per liter	5 (f)	< 0.04	E 0.021	E 0.025	< 0.04	E 0.034
1030	Chromium, micrograms per liter	50 (g)	0.71	E 0.08	0.54	1.9	0.97
1035	Cobalt, micrograms per liter		< 0.04	E 0.035	E 0.034	E 0.021	E 0.03
1040	Copper, micrograms per liter	1000 (h)	1.1	1.5	0.42	0.66	1.6
1046	Iron, water, filtered, micrograms per liter	300	E 4	E 3.1	< 6	15.5	E 4.1
1049	Lead, micrograms per liter		0.482	E 0.087	< 0.12	< 0.12	0.151
1056	Manganese, water, filtered, micrograms per liter	50	E 0.12	E 0.15	E 0.14	0.3	< 0.2
1057	Thallium, micrograms per liter	2 (i)	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
1060	Molybdenum, micrograms per liter		4.94	4.39	9.94	1.82	11
1065	Nickel, micrograms per liter	100 (j)	0.47	0.63	0.49	0.18	0.48

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007**

Code	Parameter	MCL	No. 133 09/17/2007	No. 157 09/17/2007	No. 210 09/18/2007	No. 217 09/19/2007	No. 232 09/18/2007
	Sampling date						
1075	Silver, micrograms per liter	100 (k)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1080	Strontium, water, filtered, micrograms per liter		408	813	366	279	361
1085	Vanadium, micrograms per liter		45.4	3.1	6.8	69.4	14.6
1090	Zinc, micrograms per liter	5000 (l)	3.4	0.81	< 0.06	0.94	4
1095	Antimony, micrograms per liter	6 (m)	< 0.06	0.129	E 0.035	< 0.06	E 0.03
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	5.7	E 0.8	< 1.6	4.3	E 1
1130	Lithium, water, filtered, micrograms per liter		4.72	21.2	2.24	5.28	2.97
1145	Selenium, micrograms per liter	50 (o)	1.1	0.45	1.3	1.9	1.9
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter					< 0.008	
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					< 0.026	
4029	Bromacil, water, filtered, recoverable, micrograms per liter						
4035	Simazine, water, filtered, recoverable, micrograms per liter					E 0.005	
4036	Prometryn, water, filtered, recoverable, micrograms per liter					< 0.006	
4037	Prometon, water, filtered, recoverable, micrograms per liter					< 0.01	
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					< 0.014	
4095	Fonofos, water, filtered, recoverable, micrograms per liter					< 0.006	
7000	Tritium, water, unfiltered, picocuries per liter		3.2	18.9	16.6	1	12.4
22703	Uranium, natural, micrograms per liter		3.58	2.57	2.55	2.84	2.35
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		148	151	163	135	167
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter		E 0.062	< 0.04	E 0.061	E 0.027	< 0.04
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter		0.12	0.43	0.24	E 0.04	E 0.07
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34221	Anthracene, water, filtered, recoverable, micrograms per liter						
34248	Benz[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)					
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter						
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter						
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
34409	Isophorone, water, filtered, recoverable, micrograms per liter						
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34443	Naphthalene, water, filtered, recoverable, micrograms per liter						
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter						
34466	Phenol, water, filtered, recoverable, micrograms per liter						
34470	Pyrene, water, filtered, recoverable, micrograms per liter						
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter						
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08

Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007

Code	Parameter	MCL	No. 133 09/17/2007	No. 157 09/17/2007	No. 210 09/18/2007	No. 217 09/19/2007	No. 232 09/18/2007
	Sampling date						
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
34501	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter						
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
38454	Dicropthos, water, filtered, recoverable, micrograms per liter						
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter						
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter						
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate						
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
39381	Dieldrin, water, filtered, recoverable, micrograms per liter						
39415	Metolachlor, water, filtered, recoverable, micrograms per liter						
39532	Malathion, water, filtered, recoverable, micrograms per liter						
39572	Diazinon, water, filtered, recoverable, micrograms per liter						
39632	Atrazine, water, filtered, recoverable, micrograms per liter						
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
46342	Alachlor, water, filtered, recoverable, micrograms per liter						
49260	Acetochlor, water, filtered, recoverable, micrograms per liter						
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter						
49933	C-14, water, filtered, percent modern	69.82		87.36	94.08	76.99	99.84
49934	C-14, counting error, water, filtered, percent modern						
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
50305	Caffeine, water, filtered, recoverable, micrograms per liter						
50359	Metaxyl, water, filtered, recoverable, micrograms per liter						
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6	0.57	< 0.5	0.73	1.1	1.6
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter						
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter						
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter						
61593	Iprodione, water, filtered, recoverable, micrograms per liter						
61594	Isofenphos, water, filtered, recoverable, micrograms per liter						
61596	Metaxyl, water, filtered, recoverable, micrograms per liter						

Water Quality Data for Selected RCWD Production Wells
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2007

Code	Parameter	MCL	No. 133 09/17/2007	No. 157 09/17/2007	No. 210 09/18/2007	No. 217 09/19/2007	No. 232 09/18/2007
	Sampling date						
61598	Methidathion, water, filtered, recoverable, micrograms per liter					< 0.009	
61599	Myclobutaniol, water, filtered, recoverable, micrograms per liter					< 0.033	
61601	Phosmet, water, filtered, recoverable, micrograms per liter					< 0.008	
61610	Tribuphos, water, filtered, recoverable, micrograms per liter					< 0.035	
61618	2-Chloro-2-(6-diethylacetanilide), water, filtered, recoverable, micrograms per liter					< 0.007	
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					< 0.01	
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					< 0.0045	
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					< 0.005	
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.042	
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.06	
61644	Ethion monooxon, water, filtered, recoverable, micrograms per liter					< 0.021	
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					< 0.053	
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					< 0.06	
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					< 0.039	
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					< 0.019	
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.027	
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					< 0.042	
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					< 0.0511	
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					< 0.045	
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter						
62005	Cotinine, water, filtered, recoverable, micrograms per liter						
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter						
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter						
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter						
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter						
62059	3-tert-Butyl-4-hydroxyanisole, water, filtered, recoverable, micrograms per liter						
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter						
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter						
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter						
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter						
62064	Acetophenone, water, filtered, recoverable, micrograms per liter						
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter						
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter						
62067	Benzophenone, water, filtered, recoverable, micrograms per liter						
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter						
62070	Camphor, water, filtered, recoverable, micrograms per liter						
62071	Carbazole, water, filtered, recoverable, micrograms per liter						
62072	Cholesterol, water, filtered, recoverable, micrograms per liter						
62073	D-Limonene, water, filtered, recoverable, micrograms per liter						
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter						
62076	Indole, water, filtered, recoverable, micrograms per liter						
62077	Isoborneol, water, filtered, recoverable, micrograms per liter						
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter						
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter						
62080	Menitol, water, filtered, recoverable, micrograms per liter						
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter						
62082	DEET, water, filtered, recoverable, micrograms per liter						

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Code	Parameter	MCL	No. 133 09/17/2007	No. 157 09/17/2007	No. 210 09/18/2007	No. 217 09/19/2007	No. 232 09/18/2007
	Sampling date						
62083	Diethoxyethylphenol, water, filtered, recoverable, micrograms per liter						
62084	p-Cresol, water, filtered, recoverable, micrograms per liter						
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter						
62086	beta-Stigmastanol, water, filtered, recoverable, micrograms per liter						
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter						
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter						
62090	Triclosan, water, filtered, recoverable, micrograms per liter						
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter						
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter						
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter						
62166	Fipronil, water, filtered, recoverable, micrograms per liter						< 0.016
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter						< 0.013
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter						< 0.024
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter						< 0.029
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter						< 0.012
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter			0.15			
63790	Perchlorate, water, filtered, recoverable, micrograms per liter						
70301	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	6	481	565	603	428	597
70301	Residue, water, filtered, sum of constituents, milligrams per liter	1500	E 474	E 543	E 565	E 400	E 567
70303	Residue, water, filtered, tons per acre-foot		< 0.026				
71846	Ammonia, water, filtered, milligrams per liter as NH4		0.465				
71851	Nitrate, water, filtered, milligrams per liter	45 (q)	< 0.007				
71856	Nitrite, water, filtered, milligrams per liter						
71865	Iodide, water, filtered, milligrams per liter						
71870	Bromide, water, filtered, milligrams per liter		0.336	0.132	0.172	0.308	0.292
72019	Depth to water level, feet below land surface						
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter		< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		1	1.3	1.3	1	1.3
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter		20	21	22	23	21
77041	Carbon disulfide, water, unfiltered, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77168	1,1-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	E 0.024	< 0.04
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06

Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007

Code	Parameter	MCL	No. 133 09/17/2007	No. 157 09/17/2007	No. 210 09/18/2007	No. 217 09/19/2007	No. 232 09/18/2007
	Sampling date						
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
81552	Acetone, water, unfiltered, recoverable, micrograms per liter		< 6	< 6	< 6	< 6	< 6
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter		< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter		< 1	< 1	< 1	< 1	< 1
82081	C-13/C-12 ratio, water, unfiltered, per mil		-12.5	-10.73	-10.92	-14.69	-10.92
82082	Deuterium/Protium ratio, water, unfiltered, per mil		-48	-82.4	-75.5	-47.4	-66.6
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-6.71	-10.13	-9.49	-7.05	-8.43
82303	Rn-222, water, unfiltered, picocuries per liter		250	240	250	340	200
82346	Ethion, water, filtered, recoverable, micrograms per liter		< 0.5	< 0.5	< 0.5	< 0.016	< 0.5
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter					< 0.012	
82630	Metribuzin, water, filtered, recoverable, micrograms per liter					< 0.006	
82660	2,6-Diethylanthracene, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.009	
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.0061	
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.02	
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.008	
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.016	
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.01	
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.012	
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.004	
82676	Propylzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.06	
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.003	
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.02	
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.08	
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.01	
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					< 0.08	< 0.08
85795	m-Xylene plus p-xylene, water, unfiltered, laboratory, microsiemens per liter		< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius						
90851	Triholomethanes, water, unfiltered, calcd, micrograms per liter						
90867	Triholomethanes, water, unfiltered, calcd, micrograms per liter						
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 133, 157, 210, 217, and 232
2007**

Code	Parameter	MCL	No. 133 09/17/2007	No. 157 09/17/2007	No. 210 09/18/2007	No. 217 09/19/2007	No. 232 09/18/2007
	Sampling date						
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery						
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery						
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery						
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery						
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery						

Notes:

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012**

Code	Parameter	MCL	No. 109 08/21/2012	No. 110 08/21/2012	No. 133 08/21/2012	No. 157 08/21/2012
3	Sampling date					
10	Sampling depth, feet					
10	Temperature, water, degrees Celsius		20.9	19.3	20.2	23.4
28	Agency analyzing sample, code		80020	80020	80020	80020
59	Flow rate, instantaneous, gallons per minute					
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		1250	614	835	720
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		0.00006	0.00002	0.00001	M
300	Dissolved oxygen, water, unfiltered, milligrams per liter		3.7	1.4	1.8	0.6
400	pH, water, unfiltered, field, standard units		7.2	7.7	8	7.5
403	pH, water, unfiltered, laboratory, standard units		7.5	7.8	8	7.8
405	Carbon dioxide, water, unfiltered, milligrams per liter		29	4.5	1.8	7.6
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter		286	140	113	149
602	Total nitrogen, water, filtered, milligrams per liter		< 3.7	< 0.41	< 0.80	< 0.26
607	Organic nitrogen, water, filtered, milligrams per liter		< 0.07	< 0.07	< 0.07	< 0.07
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.010	< 0.010	< 0.010	< 0.010
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.001	< 0.001	0.003	< 0.001
618	Nitrate, water, filtered, milligrams per liter as nitrogen		3.64	0.342	0.724	0.195
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		< 0.07	< 0.07	< 0.07	< 0.07
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		3.64	0.342	0.727	0.195
660	Orthophosphate, water, filtered, milligrams per liter		0.135	0.24	0.04	0.108
666	Phosphorus, water, filtered, milligrams per liter		0.03	0.07	< 0.02	0.03
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.044	0.078	0.013	0.035
900	Hardness, water, milligrams per liter as calcium carbonate		402	159	137	211
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate		167	43	43	88
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate		177	41		87
915	Calcium, water, filtered, milligrams per liter		118.0	39.6	32.6	53
925	Magnesium, water, filtered, milligrams per liter		25.9	14.4	13.3	19
930	Sodium, water, filtered, milligrams per liter		126	67.5	127	69
931	Sodium adsorption ratio, water, number		2.73	2.33	4.75	2.07
932	Sodium fraction of cations, water, percent in equivalents of major cations		40	47	66	41
935	Potassium, water, filtered, milligrams per liter		3.84	3.72	2.95	4.47
940	Chloride, water, filtered, milligrams per liter	600	127	63.4	101	72
945	Sulfate, water, filtered, milligrams per liter	600	235	88.8	110	128
950	Fluoride, water, filtered, milligrams per liter	2 (b)	0.18	0.35	0.51	0.21
955	Silica, water, filtered, milligrams per liter		33.9	15.4	27.8	12.4
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	0.97	0.9	1.5	0.45
1005	Barium, water, filtered, micrograms per liter	1000 (d)	31.1	21.9	55	37.3
1010	Beryllium, micrograms per liter	4 (e)				
1020	Boron, water, filtered, micrograms per liter		175	156	438	142
1025	Cadmium, micrograms per liter	5 (f)				
1030	Chromium, micrograms per liter	50 (g)				
1035	Cobalt, micrograms per liter					
1040	Copper, micrograms per liter	1000 (h)				
1046	Iron, water, filtered, micrograms per liter	300	8	< 3.7	16.7	3.6
1049	Lead, micrograms per liter					
1056	Manganese, water, filtered, micrograms per liter	50	< 0.16	< 0.16	0.93	20.4
1057	Thallium, micrograms per liter	2 (i)				
1060	Molybdenum, micrograms per liter					
1065	Nickel, micrograms per liter	100 (j)				

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012**

Code	Parameter	MCL	No. 109 08/21/2012	No. 110 08/21/2012	No. 133 08/21/2012	No. 157 08/21/2012
	Sampling date					
1075	Silver, micrograms per liter	100 (k)				
1080	Strontium, water, filtered, micrograms per liter		819	294	480	613
1085	Vanadium, micrograms per liter					
1090	Zinc, micrograms per liter	5000 (l)				
1095	Antimony, micrograms per liter	6 (m)				
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	<2.2	<6.6	<6.6	<2.2
1130	Lithium, water, filtered, micrograms per liter		10.7	5.26	8.95	27.5
1145	Selenium, micrograms per liter	50 (o)				
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter					
4025	Hexazinone, water, filtered, recoverable, micrograms per liter					
4029	Bromacil, water, filtered, recoverable, micrograms per liter					
4035	Simazine, water, filtered, recoverable, micrograms per liter					
4036	Prometryn, water, filtered, recoverable, micrograms per liter					
4037	Prometon, water, filtered, recoverable, micrograms per liter					
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter					
4095	Fonofos, water, filtered, recoverable, micrograms per liter					
7000	Tritium, water, unfiltered, picocuries per liter		3.3			
22703	Uranium, natural, micrograms per liter					
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		225	118	156	124
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter					
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter					
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5				
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter					
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter					
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter					
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter					
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150				
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1				
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter					
34221	Anthracene, water, filtered, recoverable, micrograms per liter					
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)				
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter					
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70				
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter					
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300				
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter					
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter					
34409	Isophorone, water, filtered, recoverable, micrograms per liter					
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter					
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter					
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5				
34443	Naphthalene, water, filtered, recoverable, micrograms per liter					
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter					
34466	Phenol, water, filtered, recoverable, micrograms per liter					
34470	Pyrene, water, filtered, recoverable, micrograms per liter					
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5				
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter					
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150				

Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012

Code	Parameter	MCL	No. 109 08/21/2012	No. 110 08/21/2012	No. 133 08/21/2012	No. 157 08/21/2012
	Sampling date					
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5				
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200				
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5				
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1				
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600				
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5				
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10				
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter					
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5				
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter					
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter					
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter					
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5				
38454	Dicorophos, water, filtered, recoverable, micrograms per liter					
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter					
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter					
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		235	115	93.6	123
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5				
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5				
39381	Dieldrin, water, filtered, recoverable, micrograms per liter					
39415	Melolachlor, water, filtered, recoverable, micrograms per liter					
39532	Malathion, water, filtered, recoverable, micrograms per liter					
39572	Diazinon, water, filtered, recoverable, micrograms per liter	1				
39632	Atrazine, water, filtered, recoverable, micrograms per liter					
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter	5				
46342	Alachlor, water, filtered, recoverable, micrograms per liter					
49260	Acetochlor, water, filtered, recoverable, micrograms per liter					
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
49933	C-14, water, filtered, percent modern		94.97			
49934	C-14, counting error, water, filtered, percent modern		0.28			
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter					
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter					
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter					
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter					
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter					
50305	Caffeine, water, filtered, recoverable, micrograms per liter					
50359	Metolaxyl, water, filtered, recoverable, micrograms per liter					
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6				
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter					
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter					
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter					
61593	Iprodione, water, filtered, recoverable, micrograms per liter					
61594	Isofenphos, water, filtered, recoverable, micrograms per liter					
61596	Metolaxyl, water, filtered, recoverable, micrograms per liter					

Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012

Code	Parameter	MCL	No. 109 08/21/2012	No. 110 08/21/2012	No. 133 08/21/2012	No. 157 08/21/2012
	Sampling date					
61598	Methidathion, water, filtered, recoverable, micrograms per liter					
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter					
61601	Phosmet, water, filtered, recoverable, micrograms per liter					
61610	Tribufos, water, filtered, recoverable, micrograms per liter					
61618	2-Chloro-2,β-diethylacetanilide, water, filtered, recoverable, micrograms per liter					
61620	2-Ethyl-6-methylaniline, water, filtered, recoverable, micrograms per liter					
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter					
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter					
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter					
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter					
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter					
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter					
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter					
61652	Malaoxon, water, filtered, recoverable, micrograms per liter					
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter					
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter					
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter					
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter					
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter					
62005	Cotinine, water, filtered, recoverable, micrograms per liter					
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter					
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter					
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter					
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter					
62059	3-tert-Butyl-4-Hydroxyanisole, water, filtered, recoverable, micrograms per liter					
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter					
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter					
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter					
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter					
62064	Acetophenone, water, filtered, recoverable, micrograms per liter					
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter					
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter					
62067	Benzophenone, water, filtered, recoverable, micrograms per liter					
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter					
62070	Camphor, water, filtered, recoverable, micrograms per liter					
62071	Carbazole, water, filtered, recoverable, micrograms per liter					
62072	Cholesterol, water, filtered, recoverable, micrograms per liter					
62073	D-Limonene, water, filtered, recoverable, micrograms per liter					
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter					
62076	Indole, water, filtered, recoverable, micrograms per liter					
62077	Isoborneol, water, filtered, recoverable, micrograms per liter					
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter					
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter					
62080	Menthol, water, filtered, recoverable, micrograms per liter					
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter					
62082	DEET, water, filtered, recoverable, micrograms per liter					

Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012

Code	Parameter	MCL	No. 109 08/21/2012	No. 110 08/21/2012	No. 133 08/21/2012	No. 157 08/21/2012
	Sampling date					
62083	Diethoxyonylphenol, water, filtered, recoverable, micrograms per liter					
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter					
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					
62090	Triclosan, water, filtered, recoverable, micrograms per liter					
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62166	Fipronil, water, filtered, recoverable, micrograms per liter					
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter					
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter					
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter					
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter					
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter	6				
63790	Perchlorate, water, filtered, recoverable, micrograms per liter					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	826	363	511	432
70301	Residue, water, filtered, sum of constituents, milligrams per liter		828	365	476	434
70303	Residue, water, filtered, tons per acre-foot					
71846	Ammonia, water, filtered, milligrams per liter as NH4		< 0.013	< 0.013	< 0.013	< 0.013
71851	Nitrate, water, filtered, milligrams per liter	45 (g)	16.1	1.52	3.21	0.861
71856	Nitrite, water, filtered, milligrams per liter		< 0.003	< 0.003	0.009	< 0.003
71865	Iodide, water, filtered, milligrams per liter		0.008	0.002	0.003	0.015
71870	Bromide, water, filtered, milligrams per liter		0.502	0.13	0.313	0.125
72019	Depth to water level, feet below land surface					
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter					
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter					
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
77041	Carbon disulfide, water, unfiltered, micrograms per liter					
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100				
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter					
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter					
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter					
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter					
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter					

Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012

Code	Parameter	MCL	No. 109 08/21/2012	No. 110 08/21/2012	No. 133 08/21/2012	No. 157 08/21/2012
	Sampling date					
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter					
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter					
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter					
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter					
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter					
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter					
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05				
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter					
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter					
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter					
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					
81552	Acetone, water, unfiltered, recoverable, micrograms per liter					
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter					
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter					
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter					
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter					
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter					
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter					
82081	C-13/C-12 ratio, water, unfiltered, per ml		-15.19			
82082	Deuterium/Protium ratio, water, unfiltered, per ml		-47.6			
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per ml		-6.63	-72.7	-54	-81.5
82303	Rn-222, water, unfiltered, picocuries per liter			-9.08	-7.14	-9.84
82346	Ethion, water, filtered, recoverable, micrograms per liter					
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter					
82630	Metribuzin, water, filtered, recoverable, micrograms per liter					
82660	2,6-Diethylamine, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter					
85795	m-Xylene plus p-xylene, water, unfiltered, laboratory, micrograms per liter					
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		1260	611	840	715
90851	Trifluoromethanes, water, unfiltered, calcd, micrograms per liter					
90867	Trifluoromethanes, water, unfiltered, calcd, micrograms per liter					
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 109, 110, 133, and 157
2012**

Code	Parameter	MCL	No. 109 08/21/2012	No. 110 08/21/2012	No. 133 08/21/2012	No. 157 08/21/2012
	Sampling date					
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery					
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery					
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery					
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery					
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery					

Notes:

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012**

Code	Parameter	MCL	No. 203 08/22/2012	No. 210 08/22/2012	No. 234 08/21/2012
3	Sampling date				
3	Sampling depth, feet				
10	Temperature, water, degrees Celsius		22.7	22.7	20.5
28	Agency analyzing sample, code		80020	80020	80020
59	Flow rate, instantaneous, gallons per minute				
95	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius		743	848	992
191	Hydrogen ion, water, unfiltered, calculated, milligrams per liter		M	0.00003	0.00003
300	Dissolved oxygen, water, unfiltered, milligrams per liter		2.3	3.8	4.8
400	pH, water, unfiltered, field, standard units		8.6	7.5	7.5
403	pH, water, unfiltered, laboratory, standard units		8.5	7.7	7.6
405	Carbon dioxide, water, unfiltered, milligrams per liter		0.8	9.6	12
453	Bicarbonate, water, filtered, incremental titration, field, milligrams per liter		185	188	238
602	Total nitrogen, water, filtered, milligrams per liter		< 0.88	< 3.0	< 5.0
607	Organic nitrogen, water, filtered, milligrams per liter		< 0.07	< 0.07	< 0.07
608	Ammonia, water, filtered, milligrams per liter as nitrogen		< 0.010	< 0.010	< 0.010
613	Nitrite, water, filtered, milligrams per liter as nitrogen	1 (a)	< 0.001	< 0.001	< 0.001
618	Nitrate, water, filtered, milligrams per liter as nitrogen		0.814	2.97	4.97
623	Ammonia plus organic nitrogen, water, filtered, milligrams per liter as nitrogen		< 0.07	< 0.07	< 0.07
631	Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		0.814	2.97	4.97
660	Orthophosphate, water, filtered, milligrams per liter		0.049	0.269	0.318
666	Phosphorus, water, filtered, milligrams per liter		< 0.02	0.08	0.09
671	Orthophosphate, water, filtered, milligrams per liter as phosphorus		0.016	0.088	0.104
900	Hardness, water, milligrams per liter as calcium carbonate		116	240	277
904	Noncarb hardness, water filtered field, milligrams per liter as calcium carbonate			85	82
905	Noncarb hardness, water filtered lab, milligrams per liter as calcium carbonate			84	80
915	Calcium, water, filtered, milligrams per liter		21	62.9	76.2
925	Magnesium, water, filtered, milligrams per liter		15.2	20	21.1
930	Sodium, water, filtered, milligrams per liter		119	88.5	108
931	Sodium adsorption ratio, water, number		4.84	2.49	2.82
932	Sodium fraction of cations, water, percent in equivalents of major cations		69	44	45
935	Potassium, water, filtered, milligrams per liter		1.81	5.36	4.36
940	Chloride, water, filtered, milligrams per liter	600	77.4	83.2	90.5
945	Sulfate, water, filtered, milligrams per liter	600	93.9	143	158
950	Fluoride, water, filtered, milligrams per liter	2 (b)	1.33	0.48	0.49
955	Silica, water, filtered, milligrams per liter		20.4	22.7	29.2
1000	Arsenic, water, filtered, micrograms per liter	10 (c)	8	0.99	1.3
1005	Barium, water, filtered, micrograms per liter	1000 (d)	27.5	41.5	46.2
1010	Beryllium, micrograms per liter	4 (e)			
1020	Boron, water, filtered, micrograms per liter		834	141	172
1025	Cadmium, micrograms per liter	5 (f)			
1030	Chromium, micrograms per liter	50 (g)			
1035	Cobalt, micrograms per liter				
1040	Copper, micrograms per liter	1000 (h)			
1046	Iron, water, filtered, micrograms per liter	300	3.5	< 3.2	9.2
1049	Lead, micrograms per liter				
1056	Manganese, water, filtered, micrograms per liter				
1057	Thallium, micrograms per liter	50	< 0.16	< 0.16	0.17
1060	Molybdenum, micrograms per liter	2 (i)			
1065	Nickel, micrograms per liter	100 (j)			

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012**

Code	Parameter	MCL	No. 203 08/22/2012	No. 210 08/22/2012	No. 234 08/21/2012
	Sampling date				
1075	Silver, micrograms per liter	100 (k)			
1080	Strontium, water, filtered, micrograms per liter		300	315	378
1085	Vanadium, micrograms per liter				
1090	Zinc, micrograms per liter	5000 (l)			
1095	Antimony, micrograms per liter	6 (m)			
1106	Aluminum, water, filtered, micrograms per liter	1000 (n)	< 6.6	< 6.6	< 2.2
1130	Lithium, water, filtered, micrograms per liter		4.04	3.75	5.68
1145	Selenium, micrograms per liter	50 (o)			
4022	Terbutylazine, water, filtered, recoverable, micrograms per liter				
4025	Hexazinone, water, filtered, recoverable, micrograms per liter				
4029	Bromacil, water, filtered, recoverable, micrograms per liter				
4035	Simazine, water, filtered, recoverable, micrograms per liter				
4036	Prometryn, water, filtered, recoverable, micrograms per liter				
4037	Prometon, water, filtered, recoverable, micrograms per liter				
4040	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, micrograms per liter				
4095	Fonofos, water, filtered, recoverable, micrograms per liter				
7000	Tritium, water, unfiltered, picocuries per liter				8.5
22703	Uranium, natural, micrograms per liter				
29801	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, milligrams per liter as calcium carbonate		158	156	197
30217	Dibromomethane, water, unfiltered, recoverable, micrograms per liter				
32101	Bromodichloromethane, water, unfiltered, recoverable, micrograms per liter				
32102	Tetrachloromethane, water, unfiltered, recoverable, micrograms per liter	0.5			
32103	1,2-Dichloroethane, water, unfiltered, recoverable, micrograms per liter				
32104	Tribromomethane, water, unfiltered, recoverable, micrograms per liter				
32105	Dibromochloromethane, water, unfiltered, recoverable, micrograms per liter				
32106	Trichloromethane, water, unfiltered, recoverable, micrograms per liter				
34010	Toluene, water, unfiltered, recoverable, micrograms per liter	150			
34030	Benzene, water, unfiltered, recoverable, micrograms per liter	1			
34215	Acrylonitrile, water, unfiltered, recoverable, micrograms per liter				
34221	Anthracene, water, filtered, recoverable, micrograms per liter				
34248	Benzo[a]pyrene, water, filtered, recoverable, micrograms per liter	0.2 (p)			
34288	Tribromomethane, water, filtered, recoverable, micrograms per liter				
34301	Chlorobenzene, water, unfiltered, recoverable, micrograms per liter	70			
34311	Chloroethane, water, unfiltered, recoverable, micrograms per liter				
34371	Ethylbenzene, water, unfiltered, recoverable, micrograms per liter	300			
34377	Fluoranthene, water, filtered, recoverable, micrograms per liter				
34396	Hexachloroethane, water, unfiltered, recoverable, micrograms per liter				
34409	Isophorone, water, filtered, recoverable, micrograms per liter				
34413	Bromomethane, water, unfiltered, recoverable, micrograms per liter				
34418	Chloromethane, water, unfiltered, recoverable, micrograms per liter				
34423	Dichloromethane, water, unfiltered, recoverable, micrograms per liter	5			
34443	Naphthalene, water, filtered, recoverable, micrograms per liter				
34462	Phenanthrene, water, filtered, recoverable, micrograms per liter				
34466	Phenol, water, filtered, recoverable, micrograms per liter				
34470	Pyrene, water, filtered, recoverable, micrograms per liter				
34475	Tetrachloroethene, water, unfiltered, recoverable, micrograms per liter	5			
34476	Tetrachloroethene, water, filtered, recoverable, micrograms per liter				
34488	Trichlorofluoromethane, water, unfiltered, recoverable, micrograms per liter	150			

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012**

Code	Parameter	MCL	No. 203 08/22/2012	No. 210 08/22/2012	No. 234 08/21/2012
	Sampling date				
34496	1,1-Dichloroethane, water, unfiltered, recoverable, micrograms per liter	5			
34501	1,1-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6			
34506	1,1,1-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	200			
34511	1,1,2-Trichloroethane, water, unfiltered, recoverable, micrograms per liter	5			
34516	1,1,2,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter	1			
34536	1,2-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	600			
34541	1,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter	5			
34546	trans-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	10			
34551	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5			
34566	1,3-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter				
34571	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter	5			
34572	1,4-Dichlorobenzene, water, filtered, recoverable, micrograms per liter				
34668	Dichlorodifluoromethane, water, unfiltered, recoverable, micrograms per liter				
34696	Naphthalene, water, unfiltered, recoverable, micrograms per liter				
34699	trans-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5			
34704	cis-1,3-Dichloropropene, water, unfiltered, recoverable, micrograms per liter	0.5			
38454	Dicofophos, water, filtered, recoverable, micrograms per liter				
38775	Dichlorvos, water, filtered, recoverable, micrograms per liter				
38933	Chlorpyrifos, water, filtered, recoverable, micrograms per liter				
39086	Alkalinity, water, filtered, incremental titration, field, milligrams per liter as calcium carbonate		158	155	196
39175	Vinyl chloride, water, unfiltered, recoverable, micrograms per liter	0.5			
39180	Trichloroethene, water, unfiltered, recoverable, micrograms per liter	5			
39381	Dieldrin, water, filtered, recoverable, micrograms per liter				
39415	Melolachlor, water, filtered, recoverable, micrograms per liter				
39532	Malathion, water, filtered, recoverable, micrograms per liter				
39572	Diazinon, water, filtered, recoverable, micrograms per liter				
39632	Atrazine, water, filtered, recoverable, micrograms per liter				
39702	Hexachlorobutadiene, water, unfiltered, recoverable, micrograms per liter				
46342	Alachlor, water, filtered, recoverable, micrograms per liter				
49260	Acetochlor, water, filtered, recoverable, micrograms per liter				
49295	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				96.49
49933	C-14, water, filtered, percent modern				0.35
49934	C-14, counting error, water, filtered, percent modern				
49991	Methyl acrylate, water, unfiltered, recoverable, micrograms per liter				
49999	1,2,3,4-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				
50000	1,2,3,5-Tetramethylbenzene, water, unfiltered, recoverable, micrograms per liter				
50002	Bromoethene, water, unfiltered, recoverable, micrograms per liter				
50004	tert-Butyl ethyl ether, water, unfiltered, recoverable, micrograms per liter				
50005	Methyl tert-pentyl ether, water, unfiltered, recoverable, micrograms per liter				
50305	Caffeine, water, filtered, recoverable, micrograms per liter				
50359	Metolaxyl, water, filtered, recoverable, micrograms per liter				
61209	Perchlorate, water, unfiltered, recoverable, micrograms per liter	6			
61585	Cyfluthrin, water, filtered, recoverable, micrograms per liter				
61586	Cypermethrin, water, filtered, recoverable, micrograms per liter				
61591	Fenamiphos, water, filtered, recoverable, micrograms per liter				
61593	Iprodione, water, filtered, recoverable, micrograms per liter				
61594	Isofenphos, water, filtered, recoverable, micrograms per liter				
61596	Metolaxyl, water, filtered, recoverable, micrograms per liter				

Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012

Code	Parameter	MCL	No. 203 08/22/2012	No. 210 08/22/2012	No. 234 08/21/2012
	Sampling date				
61598	Methidathion, water, filtered, recoverable, micrograms per liter				
61599	Myclobutanil, water, filtered, recoverable, micrograms per liter				
61601	Phosmet, water, filtered, recoverable, micrograms per liter				
61610	Tribuphos, water, filtered, recoverable, micrograms per liter				
61618	2-Chloro-2,β-diethylacetanilide, water, filtered, recoverable, micrograms per liter				
61620	2-Ethyl-6-methylamine, water, filtered, recoverable, micrograms per liter				
61625	3,4-Dichloroaniline, water, filtered, recoverable, micrograms per liter				
61633	4-Chloro-2-methylphenol, water, filtered, recoverable, micrograms per liter				
61635	Azinphos-methyl oxygen analog, water, filtered, recoverable, micrograms per liter				
61636	Chlorpyrifos oxygen analog, water, filtered, recoverable, micrograms per liter				
61644	Ethion monoxon, water, filtered, recoverable, micrograms per liter				
61645	Fenamiphos sulfone, water, filtered, recoverable, micrograms per liter				
61646	Fenamiphos sulfoxide, water, filtered, recoverable, micrograms per liter				
61652	Malaoxon, water, filtered, recoverable, micrograms per liter				
61664	Methyl paraoxon, water, filtered, recoverable, micrograms per liter				
61666	Phorate oxygen analog, water, filtered, recoverable, micrograms per liter				
61668	Phosmet oxygen analog, water, filtered, recoverable, micrograms per liter				
61674	Terbufos oxygen analog sulfone, water, filtered, recoverable, micrograms per liter				
61705	Diethoxyoctylphenol, water, filtered, recoverable, micrograms per liter				
61706	Monoethoxyoctylphenol, water, filtered, recoverable, micrograms per liter				
62005	Cotinine, water, filtered, recoverable, micrograms per liter				
62054	1-Methylnaphthalene, water, filtered, recoverable, micrograms per liter				
62055	2,6-Dimethylnaphthalene, water, filtered, recoverable, micrograms per liter				
62056	2-Methylnaphthalene, water, filtered, recoverable, micrograms per liter				
62057	3-beta-Coprostanol, water, filtered, recoverable, micrograms per liter				
62058	3-Methyl-1H-indole, water, filtered, recoverable, micrograms per liter				
62059	3-tert-Butyl-4-Hydroxyanisole, water, filtered, recoverable, micrograms per liter				
62060	4-Cumylphenol, water, filtered, recoverable, micrograms per liter				
62061	4-Octylphenol, water, filtered, recoverable, micrograms per liter				
62062	4-tert-Octylphenol, water, filtered, recoverable, micrograms per liter				
62063	5-Methyl-1H-benzotriazole, water, filtered, recoverable, micrograms per liter				
62064	Acetophenone, water, filtered, recoverable, micrograms per liter				
62065	Acetyl hexamethyl tetrahydro naphthalene, water, filtered, recoverable, micrograms per liter				
62066	9,10-Anthraquinone, water, filtered, recoverable, micrograms per liter				
62067	Benzophenone, water, filtered, recoverable, micrograms per liter				
62068	beta-Sitosterol, water, filtered, recoverable, micrograms per liter				
62070	Camphor, water, filtered, recoverable, micrograms per liter				
62071	Carbazole, water, filtered, recoverable, micrograms per liter				
62072	Cholesterol, water, filtered, recoverable, micrograms per liter				
62073	D-Limonene, water, filtered, recoverable, micrograms per liter				
62075	Hexahydrohexamethyl cyclopentabenzopyran, water, filtered, recoverable, micrograms per liter				
62076	Indole, water, filtered, recoverable, micrograms per liter				
62077	Isoborneol, water, filtered, recoverable, micrograms per liter				
62078	Isopropylbenzene, water, filtered, recoverable, micrograms per liter				
62079	Isoquinoline, water, filtered, recoverable, micrograms per liter				
62080	Menthol, water, filtered, recoverable, micrograms per liter				
62081	Methyl salicylate, water, filtered, recoverable, micrograms per liter				
62082	DEET, water, filtered, recoverable, micrograms per liter				

Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012

Code	Sampling date	Parameter	MCL	No. 203 08/22/2012	No. 210 08/22/2012	No. 234 08/21/2012
62083	Diethoxynonylphenol, water, filtered, recoverable, micrograms per liter					
62084	p-Cresol, water, filtered, recoverable, micrograms per liter					
62085	4-Nonylphenol, water, filtered, recoverable, micrograms per liter					
62086	beta-Stigmasterol, water, filtered, recoverable, micrograms per liter					
62087	Tris(2-chloroethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62088	Tris(dichloroisopropyl) phosphate, water, filtered, recoverable, micrograms per liter					
62089	Tributyl phosphate, water, filtered, recoverable, micrograms per liter					
62090	Triclosan, water, filtered, recoverable, micrograms per liter					
62091	Triethyl citrate, water, filtered, recoverable, micrograms per liter					
62092	Triphenyl phosphate, water, filtered, recoverable, micrograms per liter					
62093	Tris(2-butoxyethyl) phosphate, water, filtered, recoverable, micrograms per liter					
62166	Fipronil, water, filtered, recoverable, micrograms per liter					
62167	Fipronil sulfide, water, filtered, recoverable, micrograms per liter					
62168	Fipronil sulfone, water, filtered, recoverable, micrograms per liter					
62169	Desulfinylfipronil amide, water, filtered, recoverable, micrograms per liter					
62170	Desulfinylfipronil, water, filtered, recoverable, micrograms per liter					
62854	Total nitrogen, (NH3+NO2+NO3+Organic), filtered, milligrams per liter	6				
63790	Perchlorate, water, filtered, recoverable, micrograms per liter					
70300	Residue on evaporation, dried at 180 degrees Celsius, water, filtered, milligrams per liter	1500	459	536	610	
70301	Residue, water, filtered, sum of constituents, milligrams per liter		450	533	628	
70303	Residue, water, filtered, tons per acre-foot					
71846	Ammonia, water, filtered, milligrams per liter as NH4		< 0.013	< 0.013	< 0.013	
71851	Nitrate, water, filtered, milligrams per liter	45 (g)	3.6	13.2	22	
71856	Nitrite, water, filtered, milligrams per liter		< 0.003	< 0.003	< 0.003	
71865	Iodide, water, filtered, milligrams per liter		0.01	0.002	0.002	
71870	Bromide, water, filtered, milligrams per liter		0.226	0.15	0.273	
72019	Depth to water level, feet below land surface					
73547	trans-1,4-Dichloro-2-butene, water, unfiltered, recoverable, micrograms per liter					
73570	Ethyl methacrylate, water, unfiltered, recoverable, micrograms per liter					
75985	Tritium 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
76002	Rn-222, 2-sigma combined uncertainty, water, unfiltered, picocuries per liter					
77041	Carbon disulfide, water, unfiltered, micrograms per liter					
77093	cis-1,2-Dichloroethene, water, unfiltered, recoverable, micrograms per liter	6				
77103	n-Butyl methyl ketone, water, unfiltered, recoverable, micrograms per liter					
77128	Styrene, water, unfiltered, recoverable, micrograms per liter	100				
77135	o-Xylene, water, unfiltered, recoverable, micrograms per liter					
77168	1,1-Dichloropropene, water, unfiltered, recoverable, micrograms per liter					
77170	2,2-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					
77173	1,3-Dichloropropane, water, unfiltered, recoverable, micrograms per liter					
77220	2-Ethyltoluene, water, unfiltered, recoverable, micrograms per liter					
77221	1,2,3-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77222	1,2,4-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77223	Isopropylbenzene, water, unfiltered, recoverable, micrograms per liter					
77224	n-Propylbenzene, water, unfiltered, recoverable, micrograms per liter					
77226	1,3,5-Trimethylbenzene, water, unfiltered, recoverable, micrograms per liter					
77275	2-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					
77277	4-Chlorotoluene, water, unfiltered, recoverable, micrograms per liter					
77297	Bromochloromethane, water, unfiltered, recoverable, micrograms per liter					

Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012

Code	Parameter	MCL	No. 203 08/22/2012	No. 210 08/22/2012	No. 234 08/21/2012
	Sampling date				
77342	n-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				
77350	sec-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				
77353	tert-Butylbenzene, water, unfiltered, recoverable, micrograms per liter				
77356	4-Isopropyltoluene, water, unfiltered, recoverable, micrograms per liter				
77424	Iodomethane, water, unfiltered, recoverable, micrograms per liter				
77443	1,2,3-Trichloropropane, water, unfiltered, recoverable, micrograms per liter				
77562	1,1,1,2-Tetrachloroethane, water, unfiltered, recoverable, micrograms per liter				
77613	1,2,3-Trichlorobenzene, water, unfiltered, recoverable, micrograms per liter				
77651	1,2-Dibromoethane, water, unfiltered, recoverable, micrograms per liter	0.05			
77652	1,1,2-Trichloro-1,2,2-trifluoroethane, water, unfiltered, recoverable, micrograms per liter				
78032	Methyl tert-butyl ether, water, unfiltered, recoverable, micrograms per liter				
78109	3-Chloropropene, water, unfiltered, recoverable, micrograms per liter				
78133	Isobutyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				
81552	Acetone, water, unfiltered, recoverable, micrograms per liter				
81555	Bromobenzene, water, unfiltered, recoverable, micrograms per liter				
81576	Diethyl ether, water, unfiltered, recoverable, micrograms per liter				
81577	Diisopropyl ether, water, unfiltered, recoverable, micrograms per liter				
81593	Methyl acrylonitrile, water, unfiltered, recoverable, micrograms per liter				
81595	Ethyl methyl ketone, water, unfiltered, recoverable, micrograms per liter				
81597	Methyl methacrylate, water, unfiltered, recoverable, micrograms per liter				
81607	Tetrahydrofuran, water, unfiltered, recoverable, micrograms per liter				
82081	C-13/C-12 ratio, water, unfiltered, per mil				-12.38
82082	Deuterium/Protium ratio, water, unfiltered, per mil				-62.6
82085	Oxygen-18/Oxygen-16 ratio, water, unfiltered, per mil		-54.5	-73.2	
82303	Rn-222, water, unfiltered, picocuries per liter		-7.28	-9.03	-7.94
82346	Ethion, water, filtered, recoverable, micrograms per liter				
82625	1,2-Dibromo-3-chloropropane, water, unfiltered, recoverable, micrograms per liter				
82630	Metribuzin, water, filtered, recoverable, micrograms per liter				
82660	2,6-Diethylamine, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82661	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82662	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82664	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82667	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82670	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82673	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82675	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82676	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82680	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82682	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82683	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82686	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
82687	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter				
85795	m-Xylene plus p-xylene, water, unfiltered, recoverable, micrograms per liter				
90095	Specific conductance, water, unfiltered, laboratory, microsiemens per centimeter at 25 degrees Celsius		739	852	967
90851	Trifluoromethanes, water, unfiltered, calcd, micrograms per liter				
90867	Trihalomethanes, water, unfiltered, calcd, micrograms per liter				
99583	Bisphenol A-d3, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery				
99584	Caffeine-13C, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery				

**Water Quality Data for Selected RCWD Production Wells
Well Nos. 203, 210, and 234
2012**

Code	Parameter	MCL	No. 203 08/22/2012	No. 210 08/22/2012	No. 234 08/21/2012
	Sampling date				
99585	Decafluorobiphenyl, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery				
99586	Fluoranthene-d10, surrogate, Schedule/lab code 2033/8033, water, filtered, percent recovery				
99832	1,2-Dichloroethane-d4, surrogate, Schedule 2090, water, unfiltered, percent recovery				
99833	Toluene-d8, surrogate, Schedule 2090, water, unfiltered, percent recovery				
99834	1-Bromo-4-fluorobenzene, surrogate, VOC schedules, water, unfiltered, percent recovery				
99994	Diazinon-d10, surrogate, Schedule 2003, water, filtered, percent recovery				
99995	alpha-HCH-d6, surrogate, Schedule 2003, water, filtered, percent recovery				

Notes:

U.S. EPA STORET numbers for MCLs correspond to the same as the USGS NWIS data parameter number except as follows:

- (a) MCL shown for U.S. EPA STORET No. 620.
- (b) MCL shown for U.S. EPA STORET No. 951.
- (c) MCL shown for U.S. EPA STORET No. 1002.
- (d) MCL shown for U.S. EPA STORET No. 1007.
- (e) MCL shown for U.S. EPA STORET No. 1012.
- (f) MCL shown for U.S. EPA STORET No. 1027.
- (g) MCL shown for U.S. EPA STORET No. 1034.
- (h) MCL shown for U.S. EPA STORET No. 1042.
- (i) MCL shown for U.S. EPA STORET No. 1059.
- (j) MCL shown for U.S. EPA STORET No. 1067.
- (k) MCL shown for U.S. EPA STORET No. 1077.
- (l) MCL shown for U.S. EPA STORET No. 1092.
- (m) MCL shown for U.S. EPA STORET No. 1097.
- (n) MCL shown for U.S. EPA STORET No. 1105.
- (o) MCL shown for U.S. EPA STORET No. 1147.
- (p) MCL shown for U.S. EPA STORET No. 34247.
- (q) MCL shown for U.S. EPA STORET No. 71850.

Code--Data parameter number used in USGS National Water Information System (NWIS).

E--Estimated.

M--Presence verified but not quantified.

MCL--Maximum Contaminant Level reported by California DHS (May 25, 2007 Database) for U.S. EPA STORET number.

V--Biased results from contamination.

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ANNUAL REPORT

**COOPERATIVE WATER RESOURCE
MANAGEMENT AGREEMENT**

CALENDAR YEAR 2020

APPENDIX F

**WATER QUALITY DATA FOR
MWD AQUEDUCT NO. 5 DISCHARGE AT OUTLET WR-34**

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 05/30/2012	WR-34 07/12/2012	WR-34 08/28/2012	WR-34 09/18/2012	WR-34 11/01/2012	WR-34 12/21/2012	WR-34 01/24/2013
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	470	390	350	390	310	320	330
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonium, milligrams per liter as nitrogen	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	130		100		100	96	100
Carbonate as CO ₃ , milligrams per liter	< 3.0		< 3.0		< 3.0	< 3.0	< 3.0
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0		< 3.0		< 3.0	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter		< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 1.0
Kjeldahl Nitrogen, milligrams per liter	0.48	0.41	0.23	0.58	0.35	0.32	0.28
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.20	< 0.20	< 0.20	0.27	< 0.20	< 1.0
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nitrogen (Total), milligrams per liter		0.41		0.58			
Organic Nitrogen, milligrams per liter		0.4		0.6			
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.050	< 0.050
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter		< 0.05					
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	100		84		82	79	85
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 02/11/2013	WR-34 03/05/2013	WR-34 04/12/2013	WR-34 05/15/2013	WR-34 06/12/2013	WR-34 07/11/2013	WR-34 08/06/2013
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	390	350	480	500	620	580	710
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonium, milligrams per liter as nitrogen	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.11	< 0.10
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	110	110	130	130	140	140	59
Carbonate as CO ₃ , milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter	< 0.20	0.27	< 0.20	0.20	0.20	< 0.20	< 0.20
Kjeldahl Nitrogen, milligrams per liter	0.20	0.79	< 0.10	0.31	0.33	0.35	0.38
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	0.27	< 0.20	0.20	0.20	< 0.20	< 0.20
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nitrogen (Total), milligrams per liter							
Organic Nitrogen, milligrams per liter							
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	90	87	110	110	110	110	48
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 09/11/2013	WR-34 10/03/2013	WR-34 11/14/2013	WR-34 12/12/2013	WR-34 02/07/2014	WR-34 03/14/2014	WR-34 04/16/2014
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	630	550	540	580	540	480	540
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonium, milligrams per liter as nitrogen	< 0.10	< 0.059	< 0.10	< 0.10	< 0.10	0.11	0.15
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	140	89	140	150	160	140	160
Carbonate as CO ₃ , milligrams per liter	< 3.0	< 1.7	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 1.7	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Inorganic Nitrogen, milligrams per liter	< 0.20	< 0.11	< 0.20	< 0.20	0.23	0.35	0.57
Kjeldahl Nitrogen, milligrams per liter	0.26	0.28	0.36	0.28	0.52	0.16	0.36
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.20	< 0.11	< 0.20	< 0.20	0.23	0.24	0.42
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.017	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nitrogen (Total), milligrams per liter							
Organic Nitrogen, milligrams per liter							
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	< 0.0028	< 0.050	< 0.050	< 0.050	0.12	< 0.050
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter		< 0.01					
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	110	73	120	120	130	120	130
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 05/29/2014	WR-34 06/10/2014	WR-34 08/13/2014	WR-34 09/16/2014	WR-34 10/14/2014	WR-34 11/14/2014	WR-34 12/11/2014
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units		570					
Total Dissolved Solids, milligrams per liter	480		440	550	680	620	610
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonium, milligrams per liter as nitrogen	< 0.10	0.47	< 0.10	< 0.10	< 0.10	0.14	< 0.059
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	140	150	120	140	140	150	150
Carbonate as CO ₃ , milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 1.7
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 1.7
Inorganic Nitrogen, milligrams per liter	0.24	0.47	< 0.20	< 0.20	< 0.20	< 0.20	0.26
Kjeldahl Nitrogen, milligrams per liter	0.37	0.41	0.38	0.26	0.29	0.39	0.20
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	0.24	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.11
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.046
Nitrogen (Total), milligrams per liter							
Organic Nitrogen, milligrams per liter							
Ortho Phosphate Phosphorus, milligrams per liter	< 0.050	0.055	0.068	< 0.050	< 0.050	< 0.050	< 0.0028
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	110	120	98	120	120	120	130
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 01/13/2015	WR-34 03/12/2015	WR-34 04/15/2015	WR-34 05/19/2015	WR-34 06/10/2015	WR-34 07/16/2015	WR-34 08/13/2015
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	600	680	660	510	500	600	640
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonium, milligrams per liter as nitrogen	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	160	150	150	150	140	140	150
Carbonate as CO ₃ , milligrams per liter	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Inorganic Nitrogen, milligrams per liter	0.22	< 0.11	0.32	0.26	< 0.11	< 0.11	< 0.2
Kjeldahl Nitrogen, milligrams per liter	0.32	0.31	0.37	0.53	0.39	0.35	0.24
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	0.22	< 0.11	0.32	0.26	< 0.11	< 0.11	< 0.11
Nitrite Nitrogen, milligrams per liter	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046
Nitrogen (Total), milligrams per liter							
Organic Nitrogen, milligrams per liter							
Ortho Phosphate Phosphorus, milligrams per liter	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	130	120	120	120	110	120	120
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 09/16/2015	WR-34 10/09/2015	WR-34 11/19/2015	WR-34 12/10/2015	WR-34 01/20/2016	WR-34 02/09/2016	WR-34 03/09/2016
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	640	620	690	610	580	680	520
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonium, milligrams per liter as nitrogen	< 0.059	< 0.059	< 0.059	< 0.072	< 0.059	< 0.059	< 0.059
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	160	140	150	150	150	150	140
Carbonate as CO ₃ , milligrams per liter	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Inorganic Nitrogen, milligrams per liter	< 0.2	< 0.2	0.2	0.2	0.5	0.3	< 0.2
Kjeldahl Nitrogen, milligrams per liter	0.23	0.43	0.39	0.33	0.3	0.28	0.51
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.11	< 0.11	< 0.11	0.2	0.21	0.26	< 0.11
Nitrite Nitrogen, milligrams per liter	< 0.046	< 0.046	< 0.046	< 0.017	< 0.046	< 0.046	< 0.046
Nitrogen (Total), milligrams per liter							
Organic Nitrogen, milligrams per liter							
Ortho Phosphate Phosphorus, milligrams per liter	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter							
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	130	120	120	120	120	120	110
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 04/12/2016	WR-34 05/03/2016	WR-34 06/15/2016	WR-34 07/18/2016	WR-34 08/05/2016	WR-34 09/20/2016	WR-34 10/06/2016
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	530	620	610	560	570	560	610
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.048	< 0.048
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	150	160	160	140	140	140	130
Carbonate as CO ₃ , milligrams per liter	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Inorganic Nitrogen, milligrams per liter	0.2	0.3	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Kjeldahl Nitrogen, milligrams per liter	2.0	0.31	0.35	0.52	0.35	0.28	0.13
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	0.24	0.28	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Nitrite Nitrogen, milligrams per liter	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.042
Nitrogen (Total), milligrams per liter	2.3	0.6	0.3	0.5	0.4	0.3	ND
Organic Nitrogen, milligrams per liter	2.0	0.3	0.3	0.5	0.4	0.3	0.1
Ortho Phosphate Phosphorus, milligrams per liter	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter			< 0.02	< 0.02	< 0.02	< 0.02	< 0.04
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	120	130	130	110	120	120	100
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 11/10/2016	WR-34 12/14/2016	WR-34 01/17/2017	WR-34 02/03/2017	WR-34 03/08/2017	WR-34 04/06/2017	WR-34 05/10/2017
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	620	630	640	590	430	300	110
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	150	150	150	140	120	76	56
Carbonate as CO ₃ , milligrams per liter	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Inorganic Nitrogen, milligrams per liter	0.2	0.2	0.2	0.2	0.3	0.3	0.2
Kjeldahl Nitrogen, milligrams per liter	1.2	< 0.063	0.34	0.17	0.46	0.58	0.46
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.055	0.2	0.24	0.24	0.3	0.3	0.25
Nitrite Nitrogen, milligrams per liter	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042
Nitrogen (Total), milligrams per liter	1.4	0.2	0.3	0.4	0.8	0.9	0.7
Organic Nitrogen, milligrams per liter	1.4	< 0.02	0.3	0.2	0.5	0.6	0.5
Ortho Phosphate Phosphorus, milligrams per liter	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	0.055	0.066
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter	< 0.04	< 0.04	0.09	0.27	< 0.04	0.06	0.08
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	120	120	120	110	97	76	56
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 06/15/2017	WR-34 07/13/2017	WR-34 08/17/2017	WR-34 09/26/2017	WR-34 10/19/2017	WR-34 11/16/2017	WR-34 12/19/2017
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	240	260	290	270	280	310	290
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	73	72	75	85	80	87	83
Carbonate as CO ₃ , milligrams per liter	< 1.7	< 1.7	< 1.7	< 5.0	< 5.0	< 5.0	< 5.0
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 1.7	< 1.7	< 1.7	< 5.0	< 5.0	< 5.0	< 5.0
Inorganic Nitrogen, milligrams per liter	0.3	< 0.2	0.2	< 0.2	0.4	0.2	0.3
Kjeldahl Nitrogen, milligrams per liter	2.3	0.27	0.49	0.39	0.26	0.23	0.26
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	0.21	< 0.055	0.22	0.2	0.33	0.21	0.34
Nitrite Nitrogen, milligrams per liter	< 0.042	< 0.042	< 0.042	< 0.10	< 0.10	< 0.10	< 0.10
Nitrogen (Total), milligrams per liter	2.5	0.3	0.7	0.6	0.6	0.4	0.6
Organic Nitrogen, milligrams per liter	2.4	< 0.02	0.7	0.4	0.2	0.2	0.3
Ortho Phosphate Phosphorus, milligrams per liter	0.069	0.088	0.064	0.064	0.052	0.058	0.062
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter	0.07	0.09	0.07	0.06	< 0.04	0.06	0.08
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	73	72	75	85	80	87	83
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 01/18/2018	WR-34 02/20/2018	WR-34 03/07/2018	WR-34 04/17/2018	WR-34 05/22/2018	WR-34 06/07/2018	WR-34 07/18/2018
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	290	350	290	530	580	600	480
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	< 0.048	0.27	< 0.048	< 0.048	< 0.048	< 0.048	ND
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	80	92	81	120	140	140	120
Carbonate as CO ₃ , milligrams per liter	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	ND
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	ND
Inorganic Nitrogen, milligrams per liter	0.4	0.55	0.22	0.25	0.24	0.23	ND
Kjeldahl Nitrogen, milligrams per liter	0.25	0.67	0.39	0.35	0.31	0.24	0.21
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	0.36	0.28	0.22	0.25	0.24	0.23	ND
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	ND
Nitrogen (Total), milligrams per liter	0.6	1.0	0.6	0.6	0.6	0.5	0.2
Organic Nitrogen, milligrams per liter	0.2	0.4	0.4	0.4	0.3	0.2	0.2
Ortho Phosphate Phosphorus, milligrams per liter	0.068	0.051	0.065	< 0.024	< 0.024	< 0.024	ND
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter	0.07	< 0.04	0.16	0.07	0.07	< 0.04	0.05
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	80	92	81	120	140	140	120
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 08/29/2018	WR-34 09/19/2018	WR-34 10/23/2018	WR-34 11/28/2018	WR-34 12/13/2018	WR-34 01/24/2019	WR-34 03/19/2019
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	480	480	490	500	520	560	600
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	< 0.048	< 0.10	< 0.048	< 0.048	< 0.048	< 0.048	< 0.044
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	120	110	110	110	110	130	120
Carbonate as CO ₃ , milligrams per liter	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Inorganic Nitrogen, milligrams per liter	< 0.10	< 0.20	< 0.059	< 0.059	< 0.059	< 0.059	0.28
Kjeldahl Nitrogen, milligrams per liter	0.39	0.41	0.31	0.30	1.4	0.42	0.34
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	< 0.055	0.2	< 0.055	< 0.055	< 0.055	< 0.055	0.28
Nitrite Nitrogen, milligrams per liter	< 0.10	< 0.10	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
Nitrogen (Total), milligrams per liter	0.4	0.6	0.3	0.3	1.4	0.4	0.6
Organic Nitrogen, milligrams per liter	0.4	0.4	0.3	0.3	1.4	0.4	0.3
Ortho Phosphate Phosphorus, milligrams per liter	< 0.024	< 0.050	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter	< 0.04	< 0.05	0.05	0.06	0.05	< 0.02	< 0.02
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	120	110	110	110	110	130	120
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 04/04/2019	WR-34 05/09/2019	WR-34 06/05/2019	WR-34 07/25/2019	WR-34 08/27/2018	WR-34 09/12/2019	WR-34 10/10/2019
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units		270		290	310	310	290
Total Dissolved Solids, milligrams per liter	480		360				
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	<0.044	0.10	0.14	0.15	<0.044	<0.044	<0.044
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	120	85	94	89	88	91	89
Carbonate as CO ₃ , milligrams per liter	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Inorganic Nitrogen, milligrams per liter	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Kjeldahl Nitrogen, milligrams per liter	0.20	0.49	0.30	0.36	0.28	0.20	0.35
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Nitrite Nitrogen, milligrams per liter	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091
Nitrogen (Total), milligrams per liter	0.2	0.5	0.3	0.2	0.3	0.2	0.4
Organic Nitrogen, milligrams per liter	0.2	0.4	0.2	0.2	0.3	0.2	0.4
Ortho Phosphate Phosphorus, milligrams per liter	<0.016	<0.016	0.068	0.071	<0.016	0.059	0.058
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter	0.07	0.07	0.08	0.11	0.09	0.19	0.08
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	120	85	94	89	88	91	89
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 11/19/2019	WR-34 12/16/2019	WR-34 01/02/2020	WR-34 02/25/2020	WR-34 03/05/2020	WR-34 04/27/2020	WR-34 05/08/2020
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units							
Total Dissolved Solids, milligrams per liter	300	290	300	290	260	420	390
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter							
Ammonia, milligrams per liter as nitrogen	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044	<0.044
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	91	91	90	86	84	110	110
Carbonate as CO ₃ , milligrams per liter	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Inorganic Nitrogen, milligrams per liter	<0.16	0.22	<0.16	<0.16	<0.16	<0.16	<0.16
Kjeldahl Nitrogen, milligrams per liter	0.32	0.33	0.32	0.24	0.34	0.42	0.36
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	<0.16	0.22	<0.16	<0.16	<0.16	<0.16	<0.16
Nitrite Nitrogen, milligrams per liter	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091
Nitrogen (Total), milligrams per liter	0.3	0.6	0.3	0.2	0.3	0.4	0.4
Organic Nitrogen, milligrams per liter	0.3	0.3	0.3	0.2	0.3	0.4	0.4
Ortho Phosphate Phosphorus, milligrams per liter	0.074	0.063	<0.016	<0.050	<0.050	<0.050	<0.050
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter	0.11	0.09	0.08	0.08	0.09	0.06	0.07
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	91	91	90	86	84	110	110
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

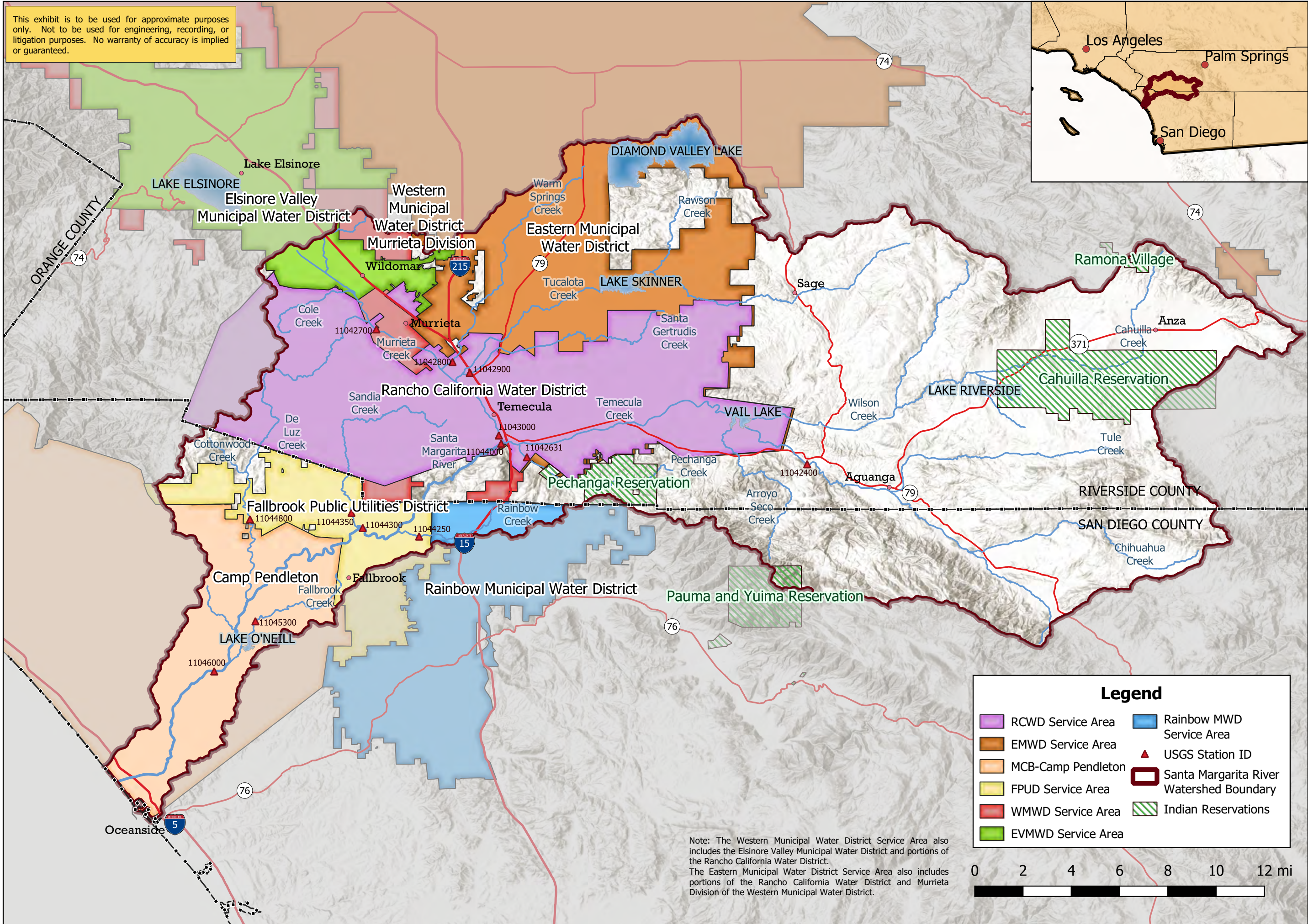
Source: Rancho California Water District.

**Water Quality Data for MWD Aqueduct No. 5 Discharge at Outlet WR-34
RCWD Water Quality Sampling Station No. WR-34
Data Collected by RCWD**

Parameter	WR-34 06/10/2020	WR-34 07/21/2020	WR-34 08/19/2020	WR-34 09/16/2020	WR-34 10/14/2020	WR-34 11/19/2020	WR-34 12/08/2020
Sampling Date							
Dissolved Oxygen, milligrams per liter							
pH, standard units		470	510	530	560	590	550
Total Dissolved Solids, milligrams per liter	360						
Specific Conductance, microsiemens per centimeter at 25 degrees Celsius							
Temperature, water, degrees Celsius							
Aluminum, micrograms per liter			<0.044	<0.04	<0.04	0.1	<0.04
Ammonia, milligrams per liter as nitrogen	<0.044	0.046					
Antimony, micrograms per liter							
Arsenic, micrograms per liter							
Barium, micrograms per liter							
Beryllium, micrograms per liter							
Bicarbonate as HCO ₃ , milligrams per liter	110	110	120	130	130	130	130
Carbonate as CO ₃ , milligrams per liter	< 5.0	5.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride, milligrams per liter							
Cyanide, milligrams per liter							
Fluoride, milligrams per liter							
Hydroxide as OH, milligrams per liter	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Inorganic Nitrogen, milligrams per liter	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Kjeldahl Nitrogen, milligrams per liter	0.30	1.1	0.47	0.4	0.3	0.5	0.3
Lead, micrograms per liter							
Mercury, micrograms per liter							
Nickel, micrograms per liter							
Nitrate Nitrogen, milligrams per liter	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Nitrite Nitrogen, milligrams per liter	<0.091	<0.091	<0.091	<0.09	<0.09	<0.09	<0.09
Nitrogen (Total), milligrams per liter	0.3	1.1	0.5	ND	0.3	0.5	0.3
Organic Nitrogen, milligrams per liter	0.3	1.1	0.5	0.4	0.3	0.4	0.3
Ortho Phosphate Phosphorus, milligrams per liter	0.053	<0.050	<0.030	<0.030	0.069	<0.030	<0.030
Perchlorate, micrograms per liter							
Phosphorus (Total), milligrams per liter	0.07	0.07	<0.02	0.05	0.05	<0.02	<0.02
Selenium, micrograms per liter							
Silver, micrograms per liter							
Sulfate, milligrams per liter							
Thalium, micrograms per liter							
Total Alkalinity as CaCO ₃ , milligrams per liter	110	120	120	130	130	130	130
Total Chromium, micrograms per liter							
Total Suspended Solids, milligrams per liter							

Source: Rancho California Water District.

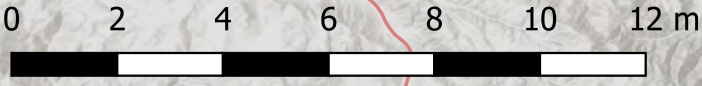
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Santa Margarita River Watershed Major Water Purveyors

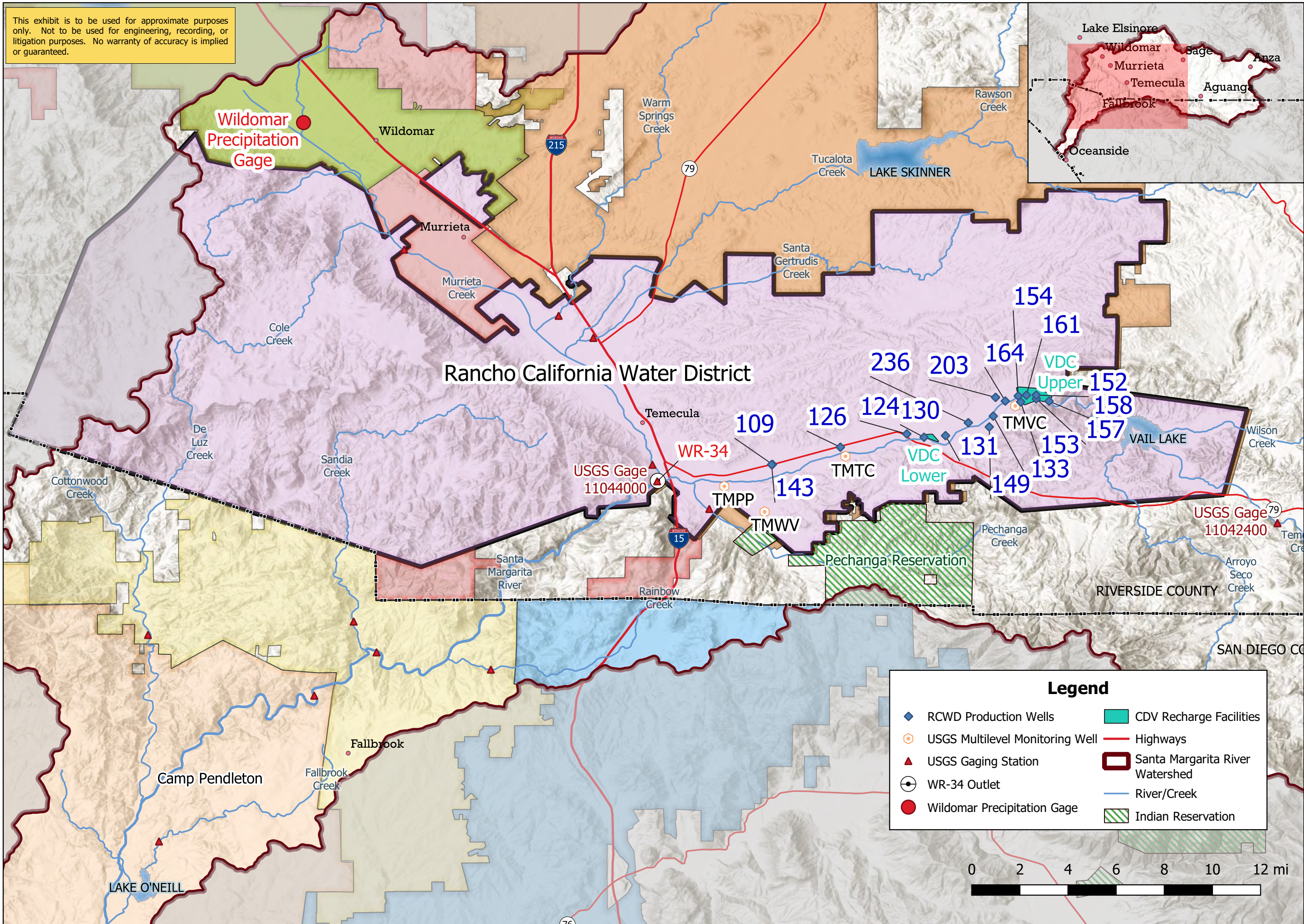
Legend

 RCWD Service Area	 Rainbow MWD Service Area
 EMWD Service Area	 USGS Station ID
 MCB-Camp Pendleton	 Santa Margarita River Watershed Boundary
 FPUD Service Area	 Indian Reservations
 WMWD Service Area	
 EVMWD Service Area	



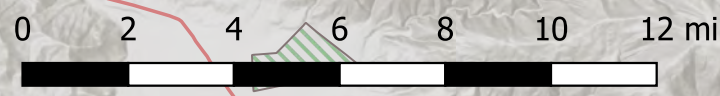
Note: The Western Municipal Water District Service Area also includes the Elsinore Valley Municipal Water District and portions of the Rancho California Water District. The Eastern Municipal Water District Service Area also includes portions of the Rancho California Water District and Murrieta Division of the Western Municipal Water District.

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Legend

◆ RCWD Production Wells	■ CDV Recharge Facilities
○ USGS Multilevel Monitoring Well	— Highways
▲ USGS Gaging Station	▭ Santa Margarita River Watershed
⊕ WR-34 Outlet	— River/Creek
● Wildomar Precipitation Gage	▨ Indian Reservation



CWRMA Location Map

